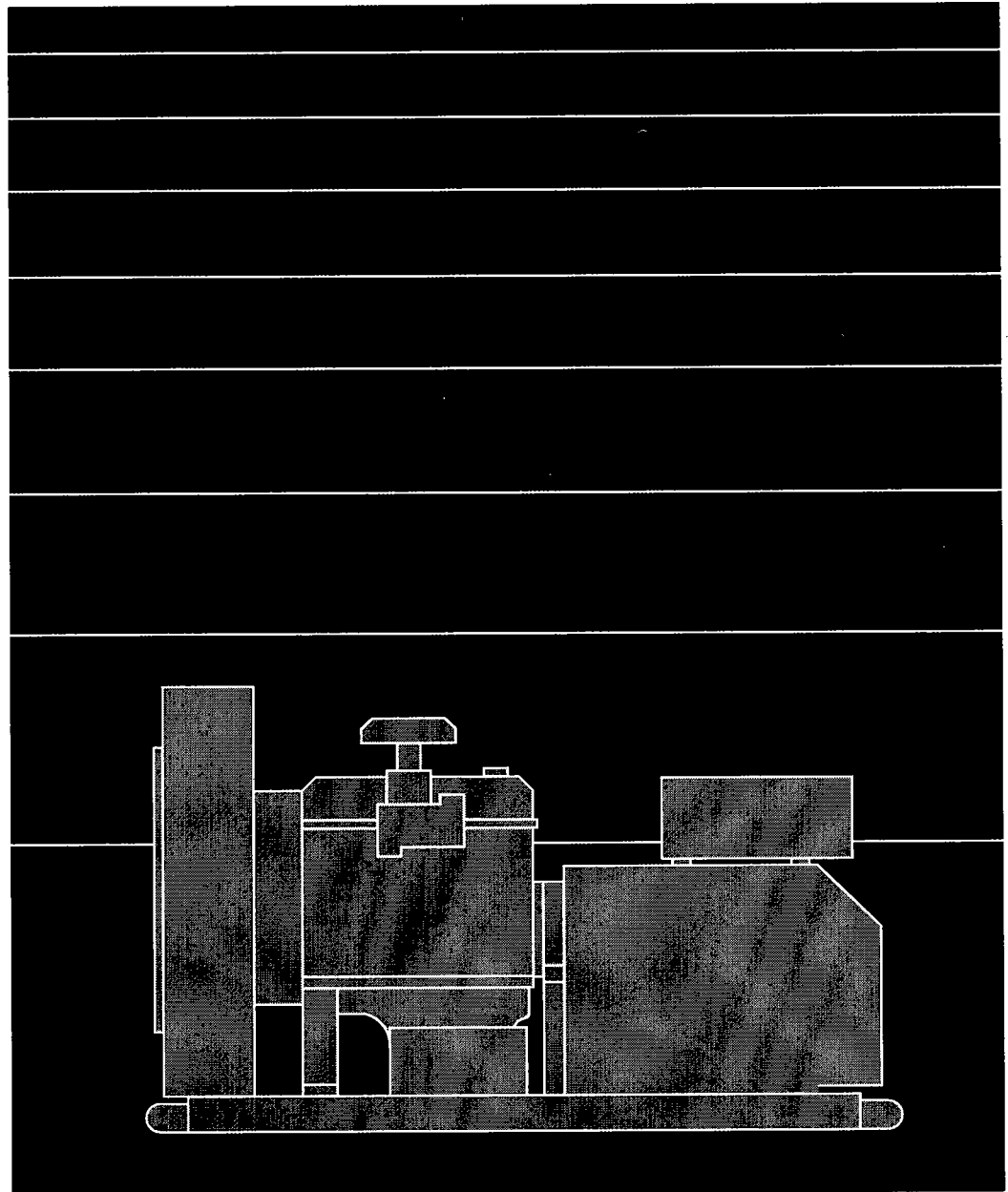




Parts Catalog

ES

Generator Set



Printed in U.S.A.

928-0222 (Spec A-G) 1-98

Replaces 11-95 (Spec A-G)

Introduction

This parts catalog applies to the standard sets listed below. The illustrations are arranged in groups of related items and each part or assembly is identified by a reference number. All parts illustrated are typical. Unless otherwise mentioned in the description or page heading, parts list the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The right and left sides of the set are determined by FACING the engine end (FRONT) of the set.

Set Data Table

Model Identification	Rating	RPM Rating	Battery Voltage
16.0ES – */#@	16,000 Watts	1500 RPM	12 VDC
20.0ES – */#@	20,000 Watts	1800 RPM	12 VDC

Electrical Data Table

* Voltage Codes	Volts	Hertz	Wire	Phase	Notes
B (3)	120/240	60	3	1	+
E (6D)	240/480	60	4	3	+
F (7)	220/380	60	4	3	
H (9X)	347/600	60	4	3	
L (15)	120/240	60	12	1	
L (15)	120/208	60	12	3	
	120/240				
	127/220				
	139/240				
	240/416				
	254/440				
	227/480				
N (53)	120/240	50	3	1	
Z (515)	110/220	50	12	1	+
	115/230				
Z (515)	110/190	50	12	3	+
	110/220				
	115/200				
	115/230				
	120/208				
	127/220				
	220/380				
	230/400				
	240/416				
	254/440				

* – Voltage codes follow model letter designations.

– Specification Number: Number 1 is standard, all others indicate variations.

\$ – Specification Letter: Letter advances (A to B, B to C, etc.) with major manufacturing changes.

+ – The Stators are Reconnectable.

Engine Replacement Parts

All engine replacement parts must be ordered from the engine manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the manufacturers nameplate and supply the model, spec, serial number and other available information. Refer to the engine manufacturers manuals for your nearest authorized distributor or parts center; or contact the Onan distributor from whom you purchased this set for assistance. Ford model number for this set is LSG-423I-6005-A.

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Abbreviations

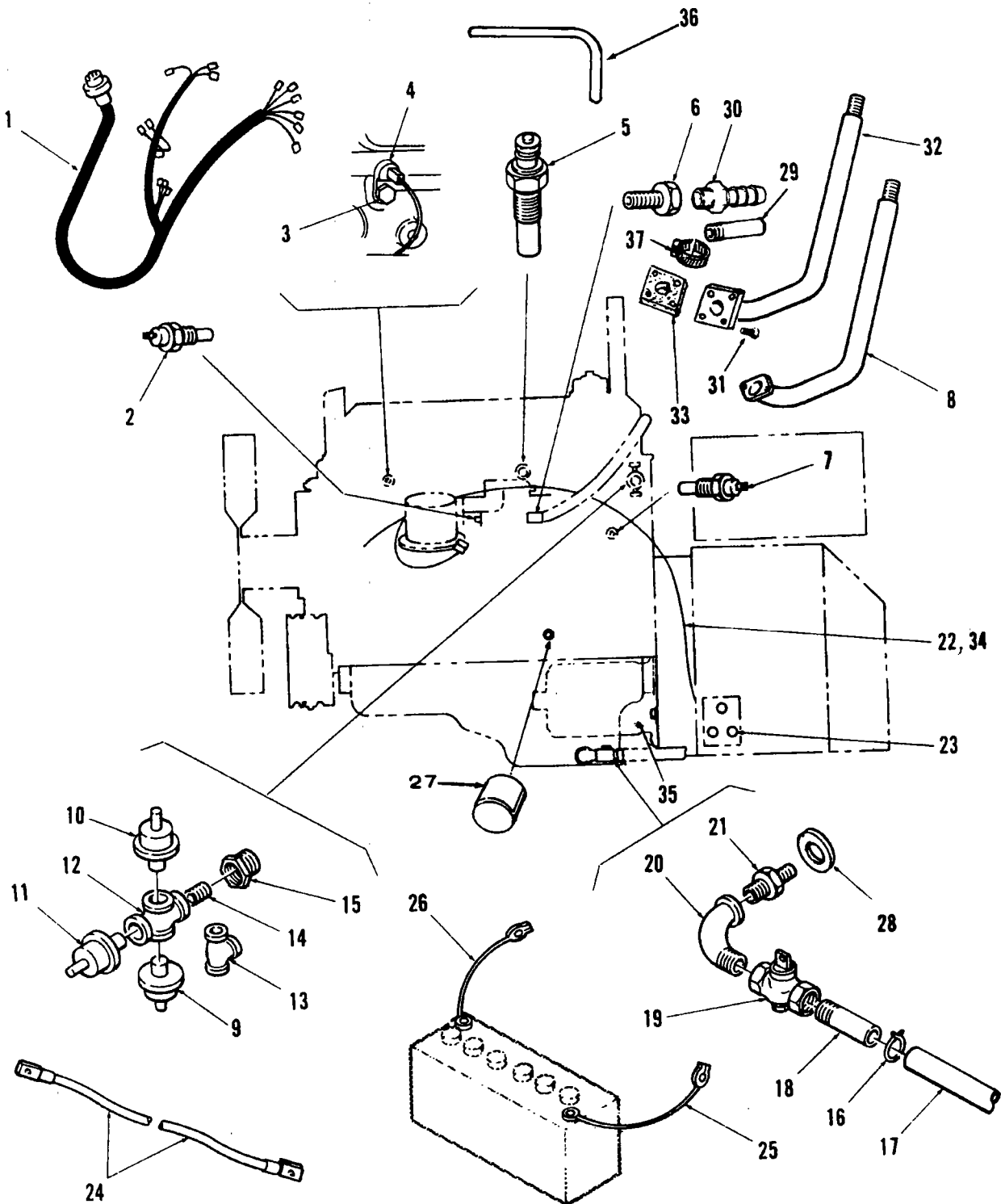
Some of the following abbreviations may be used throughout this Parts Catalog;

Alternating Current	AC	Millimeter	mm
Ampere	Amp	Not For Sale	NFS
As Required	A/R	National Pipe Thread	NPT
Automatic Voltage Regulator	AVR	Outside Diameter	OD
American Wire Gauge	AWG	Ounce	oz.
Degree	Deg	Permanent Magnet Generator	PMG
Direct Current	DC	Phase	Ph
External Tooth	ET	Printed Circuit	PC
External/Internal Tooth	EIT	Radio Frequency Interference	RFI
Ground Fault Interrupter	GFI	Right	RT
Inside Diameter	ID	Specification	Spec
Internal Tooth	IT	Thick	Thk
International Electrotechnical Commission	IEC	Underwriters Laboratories Inc.	UL
Kilowatt	kW	Union National Coarse	UNC
Liquid Petroleum Gas	LPG	Union National Fine	UNF
Left	LT	Volts Alternating Current	VAC
Meter	M(meter Number)	Volts Direct Current	VDC
		With	W/(ET, IT, EIT)

Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)	518-0601	-		Sealant, Thread (6 ml Tube)
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				

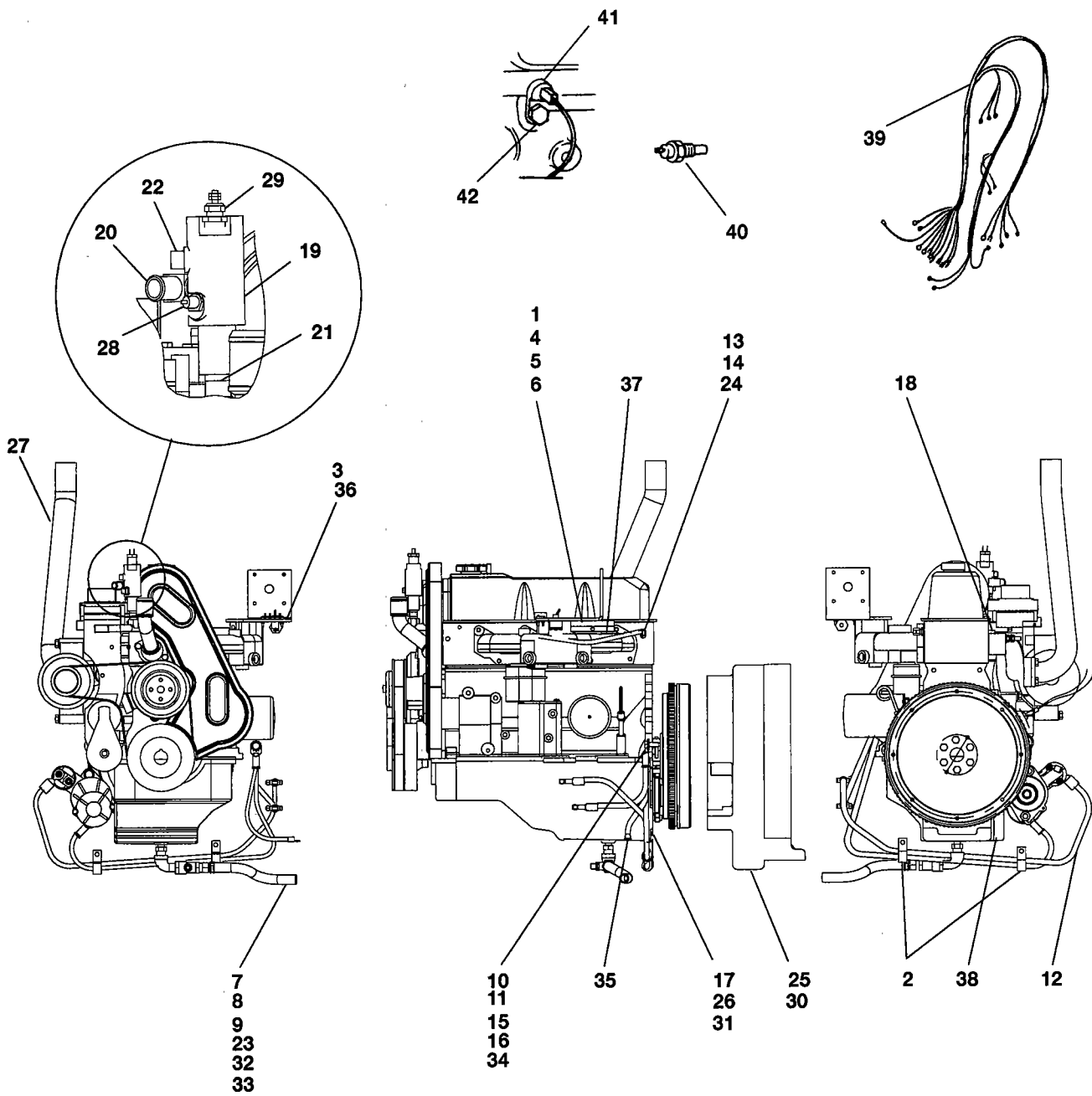
Miscellaneous Engine Parts (Spec A-F)



Miscellaneous Engine Parts (Spec A-F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine to Control	19	504-0011	1	Valve, Cock (1/2 NPT)
	338-1455	1	Spec A, B	20	502-0133	1	Elbow, Pipe – Street 90 Deg. (1/2 NPT)
	338-2677	1	Spec C	21	102-1054	1	Adapter, Pipe – Hex (1/2 NPT x M14)
	338-2782	1	Spec D	22	166-0728	1	Harness, Wiring – Ignition
	338-2797	1	Spec E, F	23	821-0010	3	Screw, Self Locking – Hex Washer Head (1/4-20 x 1/2)
2	309-0179	1	Switch, Thermostatic – Pre-Alarm (S5)				Lead, Solenoid to Starter
3	800-0261	1	Screw, Cap – Hex Head (M8 x 1-1/4 x 40mm)	24			Spec A – E
4	309-0269	1	Switch, Thermostatic – Low Engine Temperature (S4)		336-3124	1	Spec F
5	193-0318	1	Sender, Temperature – Engine Coolant (E2)		226-3462-02	1	
6	502-0799	1	Bushing, Hex W/Restrictor (3/8 NPT x 3/8 NPT)	25	416-0643	1	Cable, Battery – Positive
7	309-0437	1	Switch, Thermostatic – Shutdown (S1)	26	416-0613	1	Cable, Battery – Negative
8	155-1900	1	Pipe, Exhaust – Used through May 1984	27	122-0193	1	Filter, Oil
9	309-0641-17	1	Switch, Pressure – Oil (Shutdown) (S6)	28	102-1461	1	Gasket, Oil Drain
10	309-0641-18	1	Switch, Pressure – Oil (Pre-Alarm) (S2)	29	505-0135	1	Nipple, Pipe – Half (3/8 NPT x 1-1/2) – Used through February 1983
11	193-0244	1	Sender, Pressure – Oil (E1)	30	502-0861	1	Adapter, Pipe to Hose – Used Beginning March 1983
12	505-0763	1	Cross, Pipe (1/8 NPT)	31	800-2086	4	Screw, Cap – Hex Head (M10 x 25mm) – Used Beginning June 1984
13	505-0059	1	Tee, Pipe (1/8 NPT)	32	155-2076	1	Pipe, Exhaust – Used Beginning June 1984
14	505-0098	1	Nipple, Pipe – Short (1/8 NPT x 3/4)	33	155-2073	1	Gasket – Used Beginning June 1984
15	505-0007	1	Bushing, Reducer – Hex (1/4 NPT x 1/8 NPT)	34	332-2634	1	Clamp, J – Harness Holddown Starter (12 VDC)
16	503-0197	1	Clamp, Hose	35			Spec A – E
17	503-0509	1	Hose, Rubber		191-1370	1	Spec F
18	505-0106	1	Nipple, Pipe – Half (1/2 NPT x 1-1/2)		191-2115	1	
				36	503-0276	1	Hose, Breather (Spec C, D, E)
				37	503-0685	2	Clamp, Hose – Begin Spec F

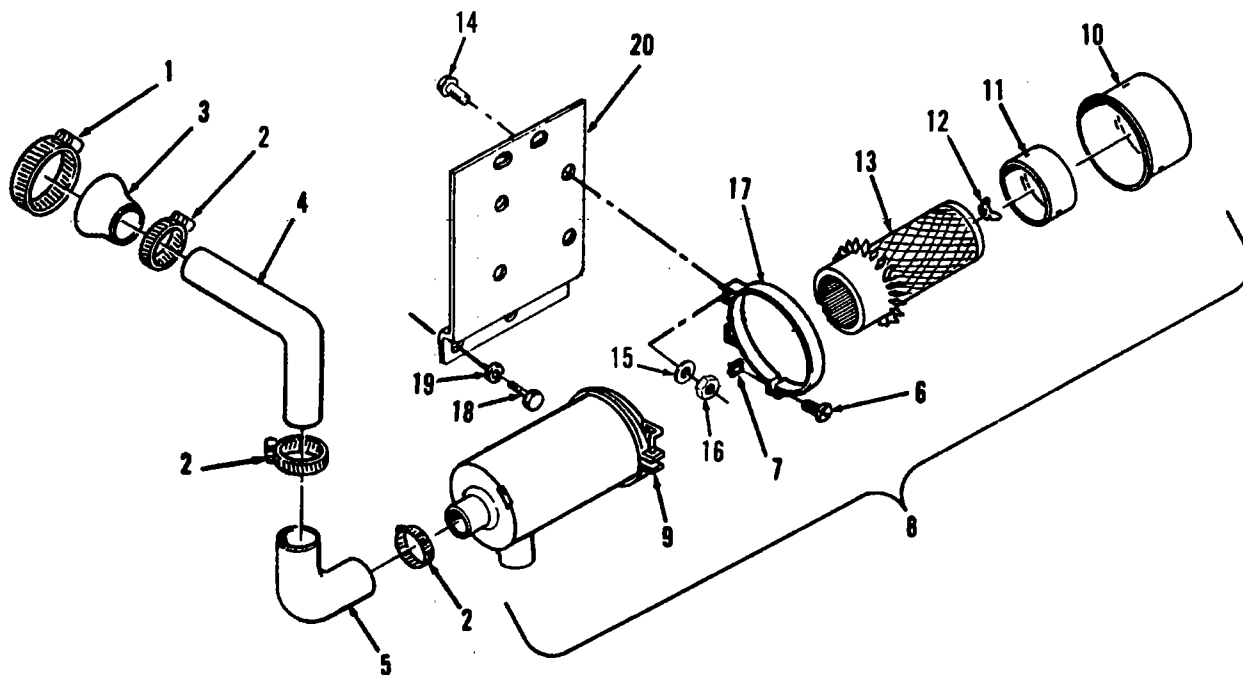
Miscellaneous Engine Parts (Spec G)



Miscellaneous Engine Parts (Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	850-2008	3	Washer, Lock (M8)	23	503-0197	1	Clamp, Hose
2	332-2634	2	Clamp, J	24	501-0004	1	Line, Fuel – Flexible
3	812-0067	2	Screw, Machine – Round Head (6-32 x .88)	25	231-0252	1	Adapter, Generator
4	800-3036	1	Screw, Cap – Hex Head (M8 x 80)	26	800-2091	1	Screw, Cap – Hex Head (M10 x 50)
5	526-2100	2	Washer, Flat (M8)	27	155-2984	1	Tube, Exhaust
6	860-2008	2	Nut, Hex Head (M8 x 1.25)	28	309-0437	1	Thermostat
7	102-1054-01	1	Adapter, Drain – Oil	29	193-0318	1	Sender, Water Temperature
8	505-0050	1	Elbow, Street (1/2 x 90°)	30	234-0665	1	Grille, Air Outlet
9	504-0011	1	Valve, Shut-Off (1/2 x 1/2)	31	803-0032	2	Screw, Set – Socket Head (1/4-20 x 1/4)
10	416-1016	1	Cable, Starter	32	505-0185	1	Nipple, Half (1/2 x 1-1/2)
11	416-0530	1	Cable, Battery – Negative	33	503-0808	1	Hose
12	416-0618	1	Cable, Battery – Positive	34	800-2093	1	Screw, Cap – Hex Head (M10 x 6)
13	502-0029	1	Bushing, Pipe (Brass)	35	336-0476	1	Strap, Ground
14	502-0065	1	Elbow, Male – Inverted (45°)	36	870-0183	2	Nut, Hex – W/ET (6-32)
15	800-2086	5	Screw, Cap – Hex Head (M10 x 25)	37	505-0054	1	Plug, Pipe (1/4)
16	856-0010	2	Washer, Lock – ET (M10)	38	101-0819	1	Plate, Engine Bracket Cover
17	800-2089	2	Screw, Cap – Hex Head (M10 x 40)	39	166-0844	1	Harness, Ignition
18	526-0174	12	Washer, Flat (3/8")	40	309-0179	1	Switch, Thermostatic – Pre-Alarm
19	154-2987	1	Manifold, Coolant	41	309-0269	1	Switch, Thermostatic – Low Engine Temperature
20	502-0943	1	Connector, Hose	42	800-2057	1	Screw, Cap – Hex Head (M8 x 20)
21	505-0101	1	Nipple, Close (3/8 x 1-1/4)				
22	502-0155	1	Plug, Pipe – Square Head (3/8)				

Air Cleaner Standard (Spec A-F)

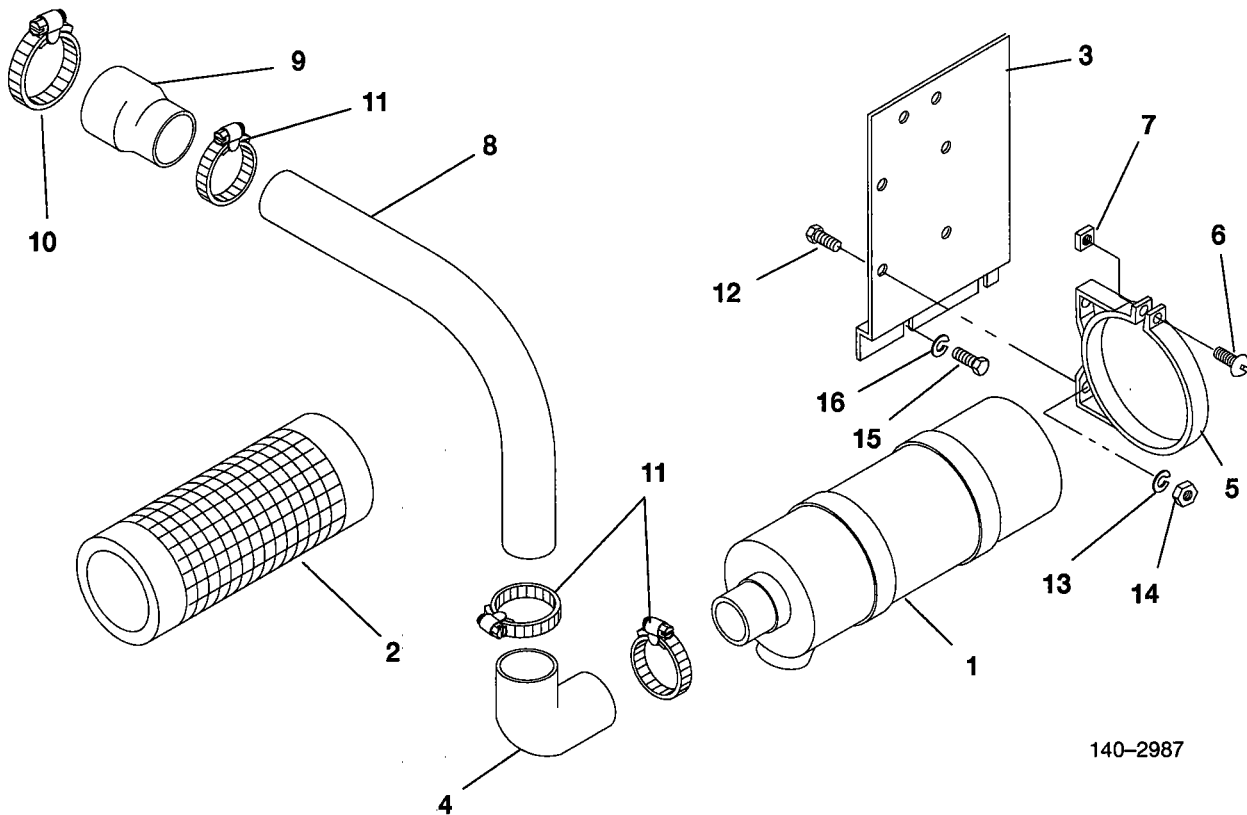


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	1	Clamp, Hose
2	503-0365	3	Clamp, Hose
3	503-1074	1	Reducer, Hose
4			Tube, Air
	140-1758	1	Spec A-F
	140-2985	1	Spec G
5	503-0419	1	Elbow, Hose - Preformed
6	812-0153	2	Screw, Machine - Round Head (1/4-20 x 1)
7	861-0011	2	Nut, Square (1/4-20)
8	140-0721	1	Cleaner Assembly, Air (Includes Parts Marked *)
9	140-1437	1	*Clamp
10	140-1438	1	*Cup
11	140-1439	1	*Baffle

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	140-1436	1	*Nut, Wing
13	140-0765	1	*Element
14	800-0026	4	Screw, Cap - Hex Head (5/16-18 x 3/4)
15	850-0046	4	Washer, Lock - Spring (5/16)
16	862-0015	4	Nut, Hex (5/16-18)
17	140-0722	2	Band, Mounting
18	800-2085	2	Screw, Cap - Hex Head (M10 x 1-1/2 x 20mm)
19	850-2010	2	Washer, Lock - Spring (M10)
20	140-1756	1	Bracket, Mounting - Air Cleaner

* - Parts Included in 140-0721 Air Cleaner Assembly

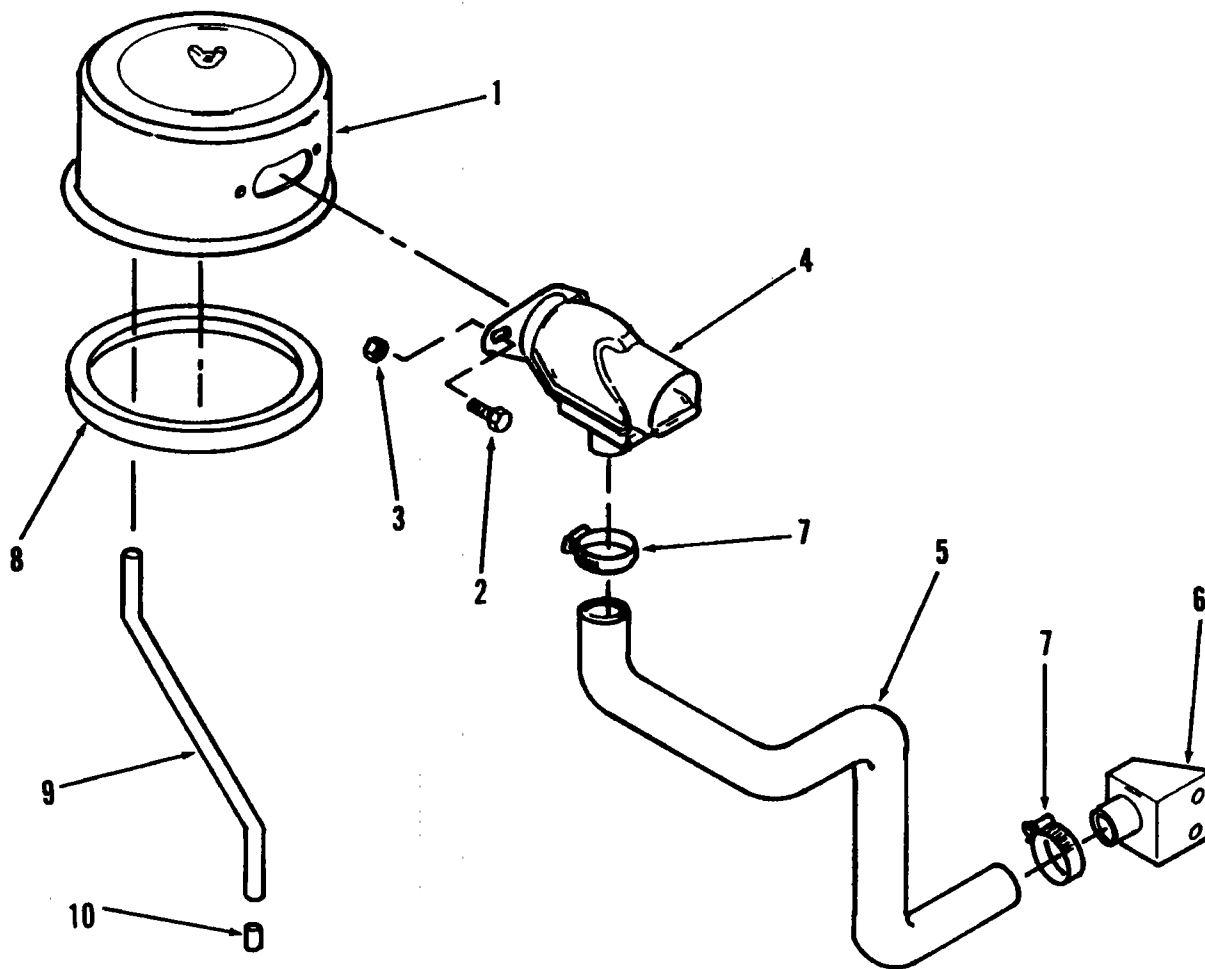
Air Cleaner (Spec G)



140-2987

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0721	1	Cleaner, Air (Includes Element)	10	503-0465	1	Clamp, Hose (2-1/4)
2	140-0765	1	Element, Air Cleaner	11	503-0365	3	Clamp, Hose (2)
3	140-1756	1	Base, Mounting - Air Cleaner	12	800-0026	4	Screw, Cap - Hex Head (5/16-18 x 3/4)
4	503-0419	1	Elbow, Rubber	13	850-0046	4	Washer, Lock (5/16)
5	140-0722	2	Band (Includes Screws and Nuts)	14	862-0015	4	Nut, Hex (5/16-18)
6	812-0153	2	Screw, Machine - Round Head (1/4-20 x 1)	15	800-2085	2	Screw, Cap - Hex Head (M10 x 1-1/2 x 20)
7	861-0011	2	Nut, Square (1/4-20)	16	850-2010	2	Washer, Lock (M10)
8	140-2985	1	Tube, Intake - Air				
9	503-1074	1	Hose, Reducer				

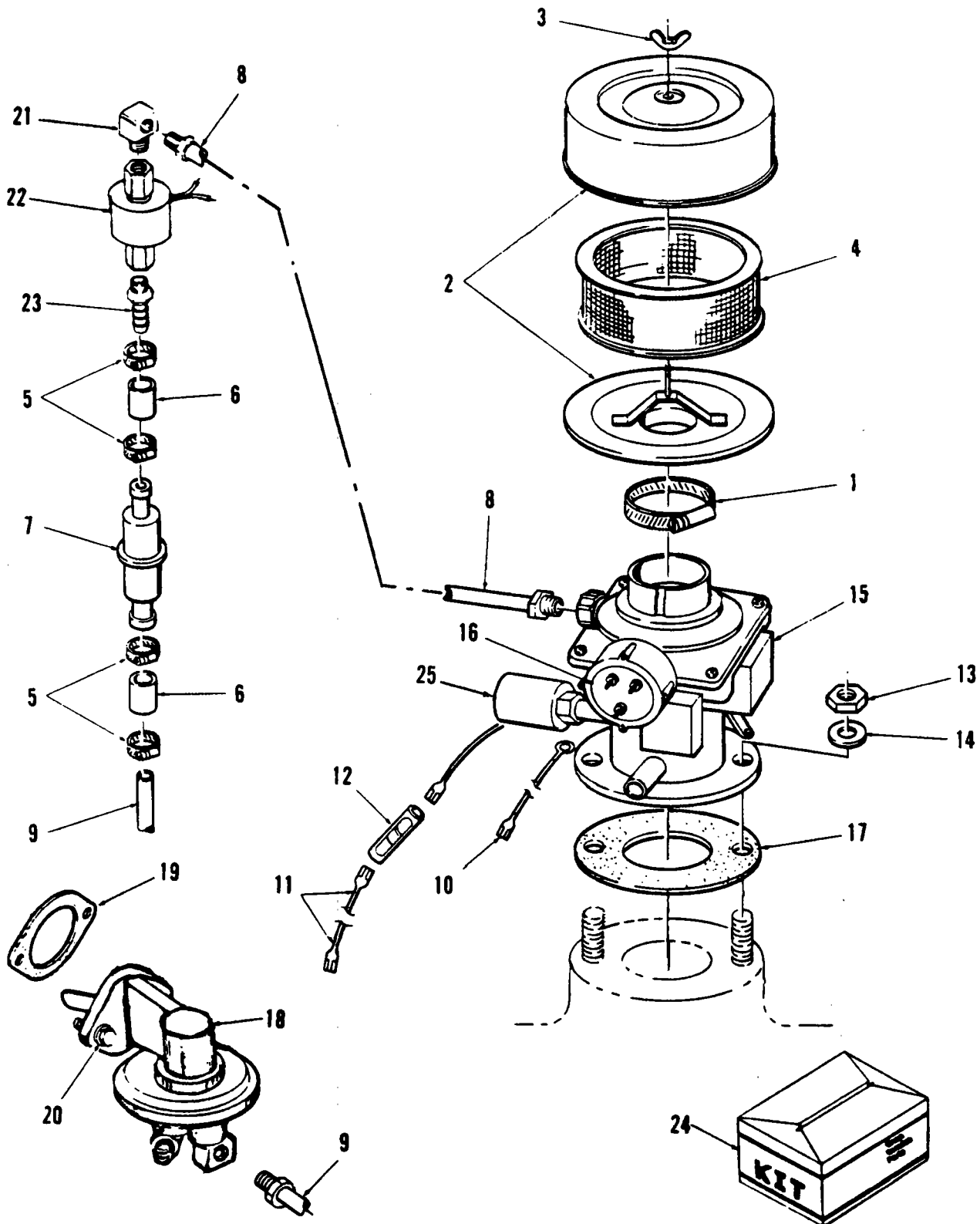
Preheat Air Cleaner (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1584	1	Air Cleaner
	140-1089	1	Element
2	821-0008	2	Screw, Locking - Hex Head (1/4-20)
3	870-0212	2	Nut, Locking - Hex (1/4-20)
4	140-2829	1	Inlet, Air Cleaner

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	503-1908	1	Hose, Air Cleaner
6	133-0219	1	Plenum
7	503-1870-03	2	Clamp, Hose
8	140-1401	1	Retainer, Carburetor
9	503-0801	1	Hose
10	503-0498	1	Hose

**Fuel System
(Gasoline)
(Spec A-F)**

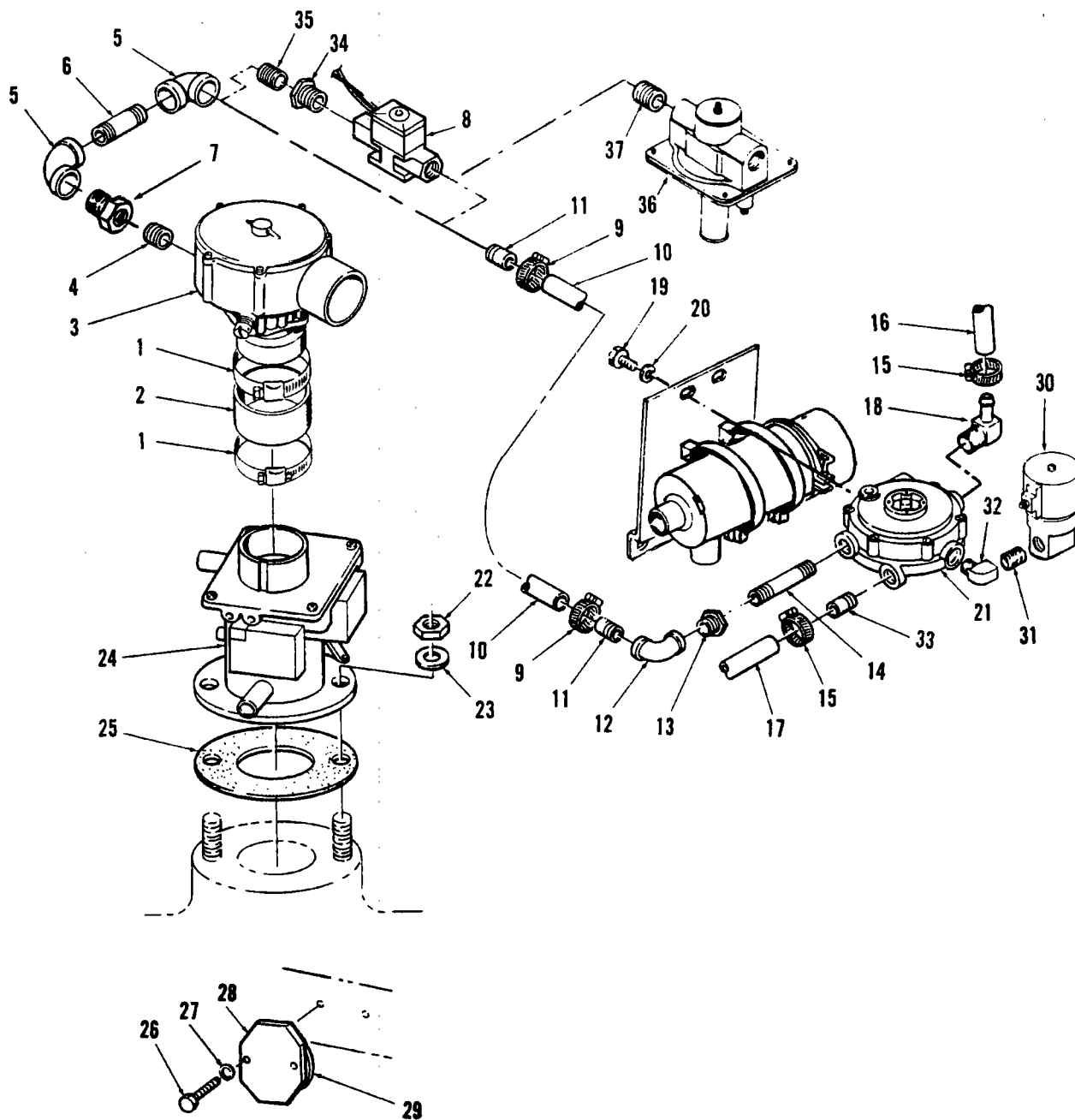


**Fuel System
(Gasoline)
(Spec A-F)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	1	Clamp, Hose	16	141-0911	1	Cover, Choke with Heater and Spring
2	140-1083	1	Cleaner, Air (Includes Parts Marked *)	17	141-0959	1	Gasket, Mounting - Carburetor
3	865-0020	1	*Nut, Wing (1/4-20)	18	149-1810	1	Pump, Fuel
4	140-1089	1	*Element, Air Cleaner	19		1	Gasket, Fuel Pump (Supplied by Ford)
5	503-0685	4	Clamp, Hose	20	800-2058	2	Screw, Cap - Hex Head (M8 x 1-1/4 x 25MM)
6	503-0883	2	Hose, Rubber	21	502-0004	1	Elbow, Pipe - 90 deg., Brass (1/8 NPT x 1/2-20)
7	149-1774	1	Filter, Fuel	22	307-1279	1	Valve, Solenoid - 12 VDC (1/8 NPT x 1/8 NPT)
8	149-1869	1	Line, Fuel - Solenoid to Carburetor	23	502-0395	1	Adapter, Pipe to Hose
9	149-1776	1	Line, Fuel - Pump to Filter	24	141-0944	1	Kit, Repair - Carburetor
10	336-7062	1	Lead, Electrical - Choke	25	141-0951	1	Solenoid
11	336-8228	1	Lead, Electrical - Solenoid				
12	332-0819	1	Splice, Electrical				
13	860-2008	2	Nut, Hex (M8 x 1-1/4)				
14	526-2100	2	Washer, Flat (M8)				
15	141-0953	1	Carburetor, Gasoline				

* - Parts included with 140-1083 Air Cleaner.

Fuel System **Propane Vapor, Natural Gas, Propane Liquid** **(Spec A-F)**



Fuel System

Propane Vapor, Natural Gas, Propane Liquid

(Spec A-F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	2	*#+Clamp, Hose	21	148-0737	1	+ Regulator, Converter – LPG
2	503-0542	1	*#Hose, Rubber	22	860-2008	2	*#+ Nut, Hex (M8)
3	148-0691	1	*#+Mixer, Vapor – Gas (1/2")	23	526-2100	2	*#+ Washer, Flat (M8)
4			Nipple, Pipe – Close	24	141-0915	1	*#+ Carburetor, Vapor – Gas (Includes Mounting Gasket)
	505-0100	1	*# 1-1/8 – LPG Vapor and Natural Gas Fuel Systems	25	141-0959	1	*#+ Gasket, Mounting – Carburetor
	505-0106	1	+ 1-1/2 – LPG Liquid Fuel Systems	26	800-2058	2	*#+ Screw, Cap – Hex Head (M8 x 25MM)
5			Elbow, Pipe – 90 deg.	27	526-0122	2	*#+ Washer, Flat (11/32" ID x 23/32" OD x 1/8" Thick)
	505-0040	2	*# LPG Vapor and Natural Gas Fuel Systems (1/2 NPT)	28	149-1832	1	*#+ Plate, Cover – Pump Mounting Hole
			+ LPG Liquid Fuel Systems	29		1	*#+ Gasket, Mounting – Fuel Pump (Supplied by Ford)
	505-0040	2	1/2 NPT – Begin 1981 through Spec D	30	307-0268	1	+> Valve, Solenoid – 12 VDC (1/4") (E4)
	505-0132	2	3/4 NPT – Begin Spec E	31	502-0047	1	+>Nipple, Pipe – Close – Brass (1/4" x 7/8")
6			Nipple, Pipe	32	502-0054	1	+>Elbow, Pipe – 90 deg. – Brass (1/4 NPT)
	505-0078	1	*# LPG Vapor and Natural Gas Fuel Systems –	33	502-0943	2	+Connector, Hose
			1/2 NPT x 2-1/2	34			Bushing, Reducer – Hex
			+ LPG Liquid Fuel Systems		505-0021	1	*# LPG Vapor and Natural Gas Fuel Systems
	505-0210	1	1/2 NPT x 2 – Begin 1981 through Spec D		505-0021	1	+ LPG Liquid Fuel Systems Begin 1981 through Spec D
	505-0085	1	3/4 NPT x 2 – Begin Spec E	35			Nipple, Pipe – Close (1/2")
7	505-0021	1	+Bushing, Reducer – Hex (3/4 to 1/2) LPG Liquid Fuel Systems – Begin Spec E		505-0100	1	*#1-1/8 NPT LPG Vapor and Natural Gas Fuel Systems
8	307-0312	1	*#+ Valve, Solenoid 12 Volt (K7) LPG Vapor and Natural Gas Fuel Systems – LPG Liquid Fuel Systems Begin 1981 through Spec D		505-0106	1	+ 1-1/2 NPT LPG Liquid Fuel Systems – Begin 1981 through Spec D
9	503-0398	2	+Clamp, Hose				Regulator, Pressure
10	503-1076	1	+Hose, Rubber	36			* Natural Gas Fuel Systems
11	505-0324	2	+Nipple, Pipe – Half (3/4 NPT x 2)		148-0597	1	# LPG Vapor Fuel Systems
12	505-0132	1	+Elbow, Pipe – 90 deg. (3/4 NPT)		148-0637	1	Nipple, Pipe
13	505-0021	1	+Bushing, Reducer – Hex (3/4 NPT x 1/2 NPT)	37			* 1/2 NPT x 3" – Natural Gas Fuel Systems
14			+Nipple, Pipe		505-0002	1	# 3/4 NPT x 1-3/8" – LPG Vapor Fuel Systems
	505-0080	1	1/2 x 5" (Used 1981 and 1982)		505-0102	1	
	505-0078	1	1/2 x 2-1/2 (Begin 1983)				
15	503-0183	4	+Clamp, Hose				
16	503-0146	1	+Hose, Rubber (5/8 ID x 32")				
17	503-0352	1	+Hose, Rubber (5/8 ID x 20")				
18	502-0587	1	+Adapter, Pipe to Hose – 90 deg. – Brass				
19	800-0004	2	+Screw, Cap – Hex Head (1/4-20 x 5/8)				
20	850-0040	2	+Washer, Lock – Spring (1/4)				

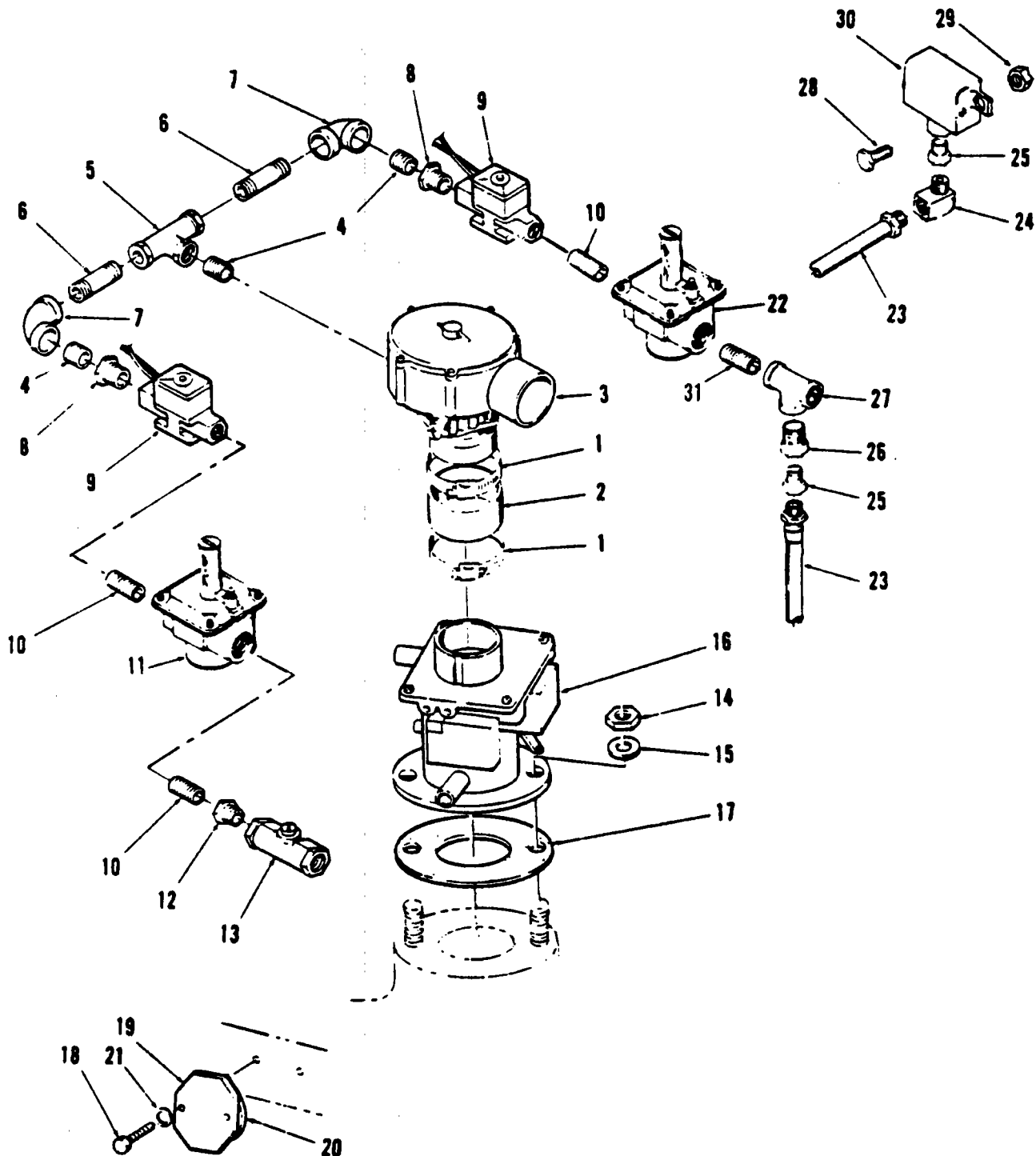
* – Parts used on Natural Gas Fuel Systems.

– Parts used on LPG Vapor Fuel Systems.

+ – Parts used on LPG Liquid Fuel Systems.

> – Use began in 1983 Production of LPG Liquid Fuel Systems.

**Dual Fuel System
Propane Vapor & Natural Gas
With Manual and Automatic Changeover
(Spec A-F)**

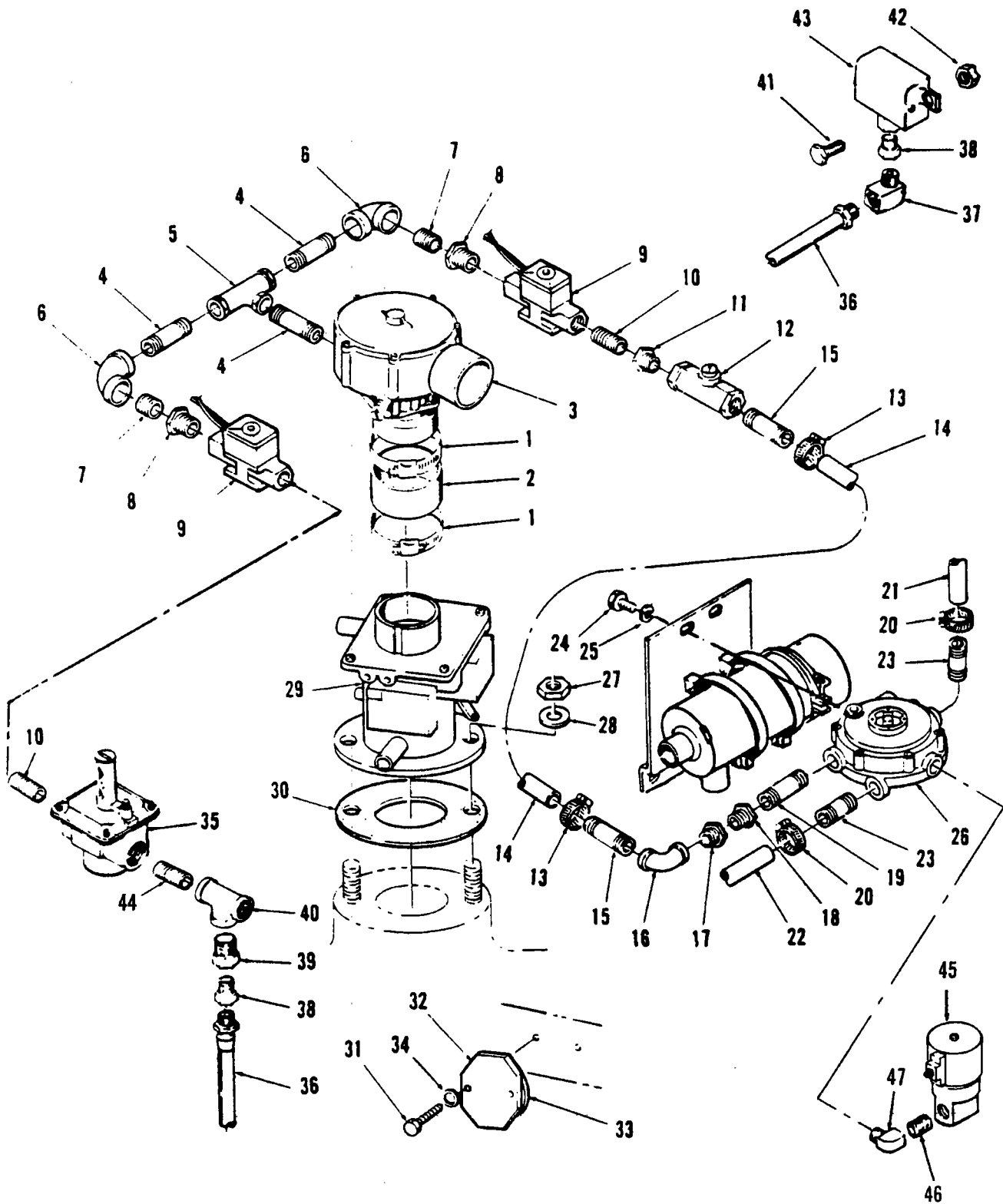


**Dual Fuel System
Propane Vapor & Natural Gas
With Manual and Automatic Changeover
(Spec A-F)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	2	Clamp, Hose	19	149-1832	1	Plate, Cover – Pump Mounting Hole
2	503-0542	1	Hose, Rubber	20		1	Gasket, Mounting – Fuel Pump (Supplied by Ford)
3	148-0691	1	Mixer, Vapor – Gas (1/2 NPT)	21	526-0122	2	Washer, Flat (11/32 ID x 23/32 OD x 1/8 THK)
4	505-0106	3	Nipple, Pipe – Close (1/2 NPT x 1-1/2)	22	148-0597	1	Regulator, Pressure – Gas Vapor (3/4 NPT)
5	505-0108	1	Tee, Pipe (1/2 NPT)	23	501-0005	1	*Line, Fuel (1/8 NPT Male x 7/16-20 Male x 18-1/2 Long)
6	505-0210	2	Nipple, Pipe (1/2 NPT x 2)	24	502-0002	1	*Elbow, Pipe – 90 deg. (1/8 NPT Male x 7/16-20 Female)
7	505-0040	2	Elbow, Pipe – 90 deg. (1/2 NPT)	25	505-0007	2	*Bushing, Reducer – Hex (1/4 NPT x 1/8 NPT)
8	505-0021	2	Bushing, Reducer – Hex (3/4 NPT x 1/2 NPT)	26	505-0020	1	*Bushing, Reducer – Hex (3/4 NPT x 1/4 NPT)
9	307-0312	2	Valve, Solenoid – 12 VDC (3/4 NPT) (K6, K7)	27	505-0166	1	*Tee, Pipe (3/4 NPT)
10	505-0102	3	Nipple, Pipe – Close (3/4 NPT x 1-3/8)	28	821-0018	2	*Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8)
11	148-0637	1	Regulator, Pressure – Gas Vapor (3/4 NPT)	29	870-0212	2	*Nut, Self-Locking – Hex Washer Head (1/4-20)
12	505-0129	1	Bushing, Reducer – Hex (1 NPT x 3/4 NPT)	30	148-0627	1	*Switch, Pressure 12 VDC (S9)
13	148-0626	1	Valve, Control – Manual (3/4 NPT)	31	505-0102	1	*Nipple, Close (3/4 x 1-3/8)
14	860-2008	2	Nut, Hex (M8 x 1-1/4)				
15	526-2100	2	Washer, Flat (M8)				
16	141-0915	1	Carburetor, Vapor – Gas (Includes Mounting Gasket)				
17	141-0959	1	Gasket, Mounting – Carburetor				
18	800-2058	2	Screw, Cap – Hex Head (M8 x 1-1/4 x 25MM)				

* – These additional parts are used on models with automatic changeover.

**Dual Fuel System
Propane Liquid & Natural Gas
With Manual and Automatic Changeover
(Spec A-F)**



**Dual Fuel System
Propane Liquid & Natural Gas
With Manual and Automatic Changeover
(Spec A-F)**

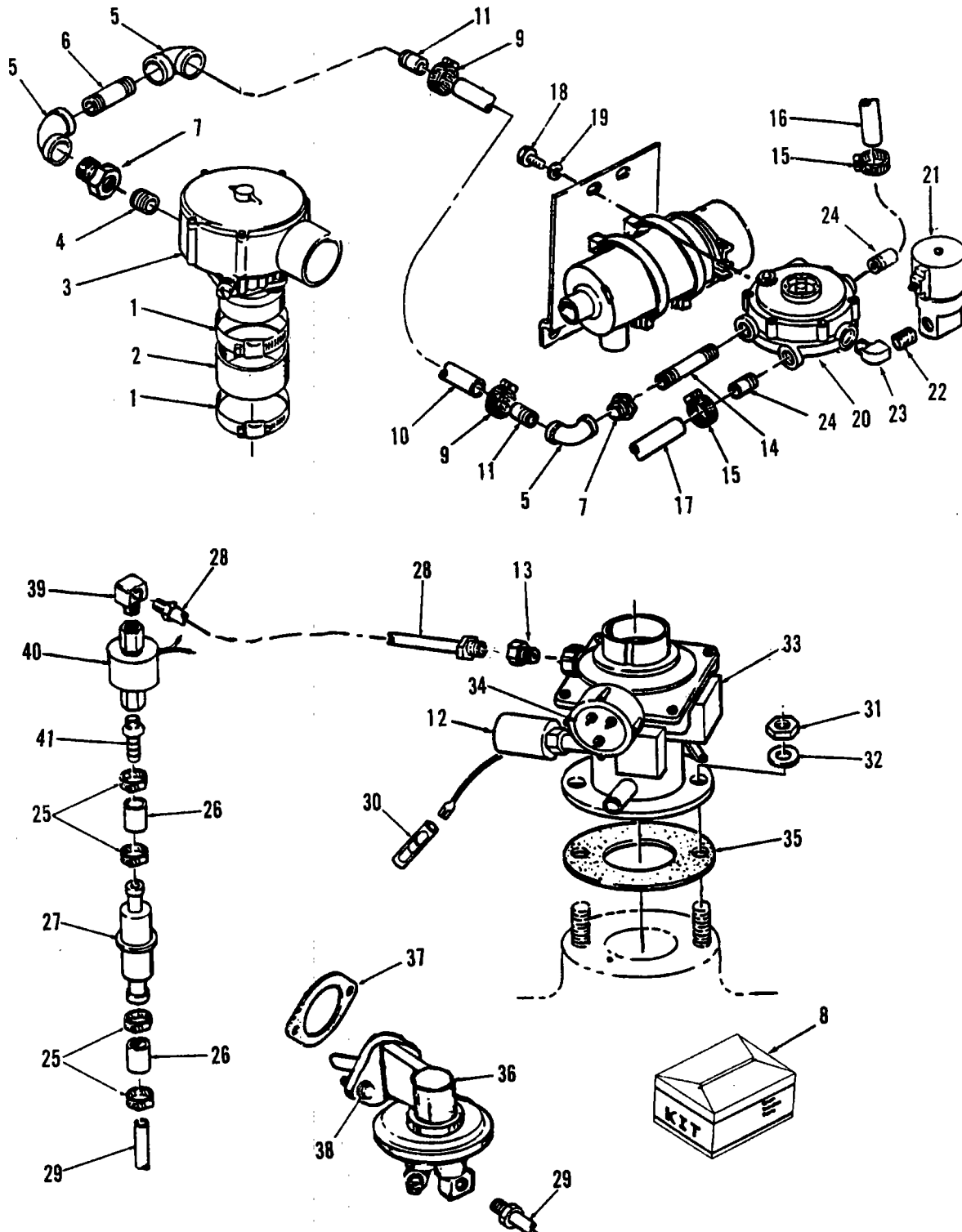
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	2	Clamp, Hose	30	141-0959	1	Gasket, Mounting – Carburetor
2	503-0542	1	Hose, Rubber	31	800-2058	2	Screw, Cap – Hex Head (M8 x 25MM)
3	148-0691	1	Mixer, Vapor – Gas (1/2 NPT)	32	149-1832	1	Plate, Cover – Pump Mounting Hole
4	505-0210	3	Nipple, Pipe (1/2 NPT x 2)	33		1	Gasket, Mounting – Fuel Pump (Supplied by Ford)
5	505-0108	1	Tee, Pipe (1/2 NPT)	34	526-0122	2	Washer, Flat (11/32 ID x 23/32 OD x 1/8 THK)
6	505-0040	2	Elbow, Pipe – 90 deg. (1/2 NPT)	35	148-0597	1	Regulator, Pressure – Gas Vapor (3/4 NPT)
7	505-0106	2	*Nipple, Pipe (1/2 NPT x 1-1/2)	36	501-0005	1	#Line, Fuel (1/8 NPT Male x 7/16-20 Male x 18-1/2)
8	505-0021	2	*Bushing, Reducer – Hex (3/4 NPT x 1/2 NPT)	37	502-0002	1	#Elbow, Pipe – 90 deg. (1/8 NPT Male x 7/16-20 Female)
9	307-0312	2	*Valve, Solenoid 12 VDC (3/4 NPT) (K6, K7)	38	505-0007	2	#Bushing, Reducer – Hex (1/4 NPT x 1/8 NPT)
10	505-0102	2	Nipple, Pipe – Close (3/4 NPT x 1-3/8)	39	505-0020	1	#Bushing, Reducer – Hex (3/4 NPT x 1/4 NPT)
11	505-0129	1	Bushing, Reducer – Hex (1 NPT x 3/4 NPT)	40	505-0166	1	#Tee, Pipe (3/4 NPT)
12	148-0626	1	Valve, Control – Manual (3/4 NPT)	41	821-0018	2	#Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8)
13			Clamp, Hose	42	870-0212	2	#Nut, Self-Locking – Hex Washer Head (1/4-20 x 5/8)
	503-1059	2	Manual Changeover Systems	43	148-0627	1	#Switch, Pressure – 12 VDC (S9)
	503-0429	2	Automatic Changeover Systems	44	505-0102	1	#Nipple, Pipe – Close (3/4 NPT x 1-3/8)
14	503-1073	1	Hose, Rubber	45	307-0268	1	+ Valve, Solenoid – 12 VDC (1/4 NPT) (E4)
15	505-0330	2	Nipple, Half (1 NPT x 2)	46	502-0047	1	+ Nipple, Pipe – Close – Brass (1/4 NPT x 7/8)
16	505-0041	1	Elbow, Pipe – 90 deg. (1 NPT)	47	502-0054	1	+ Elbow, Pipe – 90 deg. – Brass (1/4 NPT)
17	505-0129	1	Bushing, reducer – Hex (1 NPT x 3/4 NPT)				
18	505-0021	1	Bushing, Reducer – Hex (3/4 NPT x 1/2 NPT)				
19	505-0169	1	Nipple, Pipe (1/2 NPT x 4)				
20	503-0183	4	Clamp, Hose				
21	503-0146	1	Hose, Rubber				
22	503-0352	1	Hose, Rubber				
23	505-0135	2	Nipple, Pipe – Half (3/8 NPT x 1-1/2)				
24	800-0004	2	Screw, Cap – Hex Head (1/4-20 x 5/8)				
25	850-0040	2	Washer, Lock – Spring (1/4)				
26	148-0737	1	Regulator/Converter – LPG				
27	860-2008	2	Nut, Hex (M8)				
28	526-2100	2	Washer, Flat (M8)				
29			Carburetor, Vapor – Gas				
	141-0915	1	Manual Changeover Systems Includes Mounting Gasket)				
	141-0954	1	Automatic Changeover Systems				

* – In 1981 and 1982 production a quantity of 2 was used and beginning in 1983 production a quantity of 1 is used for manual changeover systems.

– Parts used with automatic changeover systems.

+ – Use began in 1983 production with manual changeover systems.

Dual Fuel System Gasoline & Propane Liquid With Manual Changeover (Spec A-F)



**Dual Fuel System
Gasoline & Propane Liquid
With Manual Changeover
(Spec A-F)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	2	Clamp, Hose	23	502-0054	1	Elbow, Pipe – 90 deg. – Brass (1/4 NPT)
2	503-0542	1	Hose, Rubber	24	502-0943	2	Connector, Hose
3	148-0691	1	Mixer, Vapor – Gas	25	503-0685	4	Clamp, Hose
4	505-0106	2	Nipple, Pipe – Close (1/2 NPT x 1-1/2)	26	503-0883	2	Hose, Rubber
5	505-0132	3	Elbow, Pipe – 90 deg. (3/4 NPT)	27	503-1774	1	Filter, Fuel
6	505-0085	1	Nipple, Pipe (3/4 NPT x 2)	28	149-1869	1	Line, Fuel – Solenoid to Carburetor
7	505-0021	2	Bushing, Reducer – Hex (3/4 NPT x 1/2 NPT)	29	149-1776	1	Line, Fuel – Pump to Filter
8	141-0944	1	Kit, Repair – Carburetor	30	332-0819	1	Splice, Electrical
9	503-0398	2	Clamp, Hose	31	860-2008	2	Nut, Hex (M8 x 1-1/4)
10	503-1909-02	1	Hose, Rubber (3/4 ID x 14)	32	526-2100	2	Washer, Flat (M8)
11	502-1031	2	Connector, Hose	33	141-0953	1	Carburetor, Gasoline
12	141-0951	1	Solenoid	34	141-0911	1	Cover, Choke – W/Heater & Spring
13	502-0018	1	Connector, Male	35	141-0959	1	Gasket, Mounting – Carburetor
14	505-0078	1	Nipple, Pipe (1/2 NPT x 2-1/2)	36	149-1810	1	Pump, Fuel
15	503-0183	4	Clamp, Hose	37		1	Gasket, Mounting – Fuel Pump (Supplied by Ford)
16	503-0146	1	Hose, Rubber (5/8 x 32)	38	800-2058	2	Screw, Cap – Hex Head (M8 x 1-1/4 x 25MM)
17	503-0352	1	Hose, Rubber (5/8 x 20)	39	502-0004	1	Elbow, Pipe – 90 deg. – Brass (1/8 NPT x 1/2-20)
18	800-0004	2	Screw, Cap – Hex Head (1/4-20 x 5/8)	40	307-1279	1	Valve, Solenoid – 12 VDC (1/8 NPT x 1/8 NPT) (E9)
19	850-0040	2	Washer, Lock – Spring (1/4)	41	502-0395	1	Adapter, Pipe to Hose
20	148-0737	1	Regulator/Converter – LPG				
21	307-0268	1	Valve, Solenoid – 12 VDC (1/4 NPT) (E4)				
22	502-0047	1	Nipple, Pipe – Close – Brass (1/4 NPT x 7/8)				

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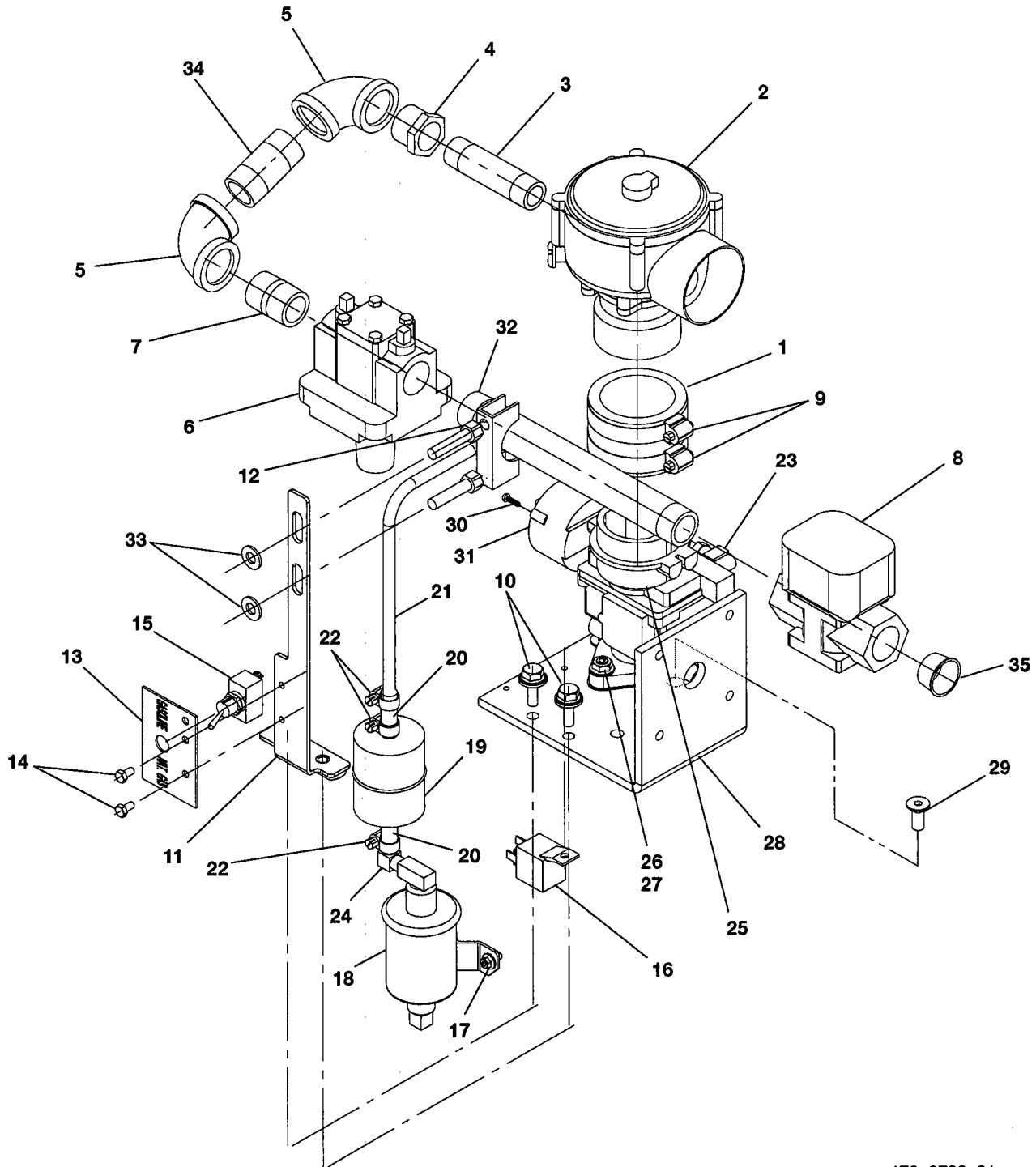
**Dual Fuel System
Gasoline & Propane Vapor
Gasoline & Natural Gas
With Manual Changeover
(Spec A-F)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	2	Clamp, Hose	20	141-0911	1	Cover, Choke W/Heater & Spring
2	503-0542	1	Hose, Rubber	21	141-0959	1	Gasket, Mounting – Carburetor
3	148-0691	1	Mixer, Vapor – Gas (1/2 NPT)	22	149-1810	1	Pump, Fuel
4	505-0100	2	Nipple, Pipe – Close (1/2 NPT x 1-1/8)	23		1	Gasket, Mounting – Fuel Pump (Supplied by Ford)
5	505-0040	2	Elbow, Pipe – 90 deg. (1/2 NPT)	24	800-2058	2	Screw, Cap – Hex Head (M8 x 1-1/4 x 25MM)
6	505-0078	1	Nipple, Pipe (1/2 NPT x 2-1/2)	25	502-0004	1	Elbow, Pipe – 90 deg. – Brass (1/8 NPT x 1/2-20)
7	505-0021	1	Bushing, Reducer – Hex (3/4 NPT x 1/2 NPT)	26	307-1279	1	Valve, Solenoid – 12 VDC (1/8 NPT x 1/8 NPT) (E9)
8	307-0312	1	Valve, Solenoid – 12 VDC (3/4 NPT) (K7)	27	502-0395	1	Adapter, Pipe to Hose
9	505-0102	1	*Nipple, Pipe – Close (3/4 NPT x 1-3/8)	28	141-0951	1	Solenoid
10	148-0637	1	*Regulator, Pressure – Gas Vapor (3/4 NPT)	29	502-0018	1	*Connector, Male
11	503-0685	4	Clamp, Hose	30	141-0944	1	#Kit, Repair – Carburetor (Used with 141-0953 Carburetor)
12	503-0883	2	Hose, Rubber	31	336-7062	1	#Lead, Electrical – Choke
13	149-1774	1	Filter, Fuel	32	336-8228	1	#Lead, Electrical – Solenoid
14	149-1869	1	Line, Fuel – Solenoid to Carburetor				
15	149-1776	1	Line, Fuel – Pump to Filter				
16	332-0819	1	Splice, Electrical				
17	860-2008	2	Nut, Hex (M8 x 1-1/2)				
18	526-2100	2	Washer, Flat (M8)				
19			Carburetor, Gasoline				
	141-0953	1	Gasoline & Natural Gas Dual Fuel Systems (Includes Mounting Gasket)				
	141-0915	1	Gasoline & LPG Vapor Dual Fuel Systems				

* – Used on Gasoline and LPG Vapor Dual Fuel Systems.

– Used on Gasoline and Natural Gas Dual Fuel Systems.

Fuel System **Natural Gas/Gasoline With Manual Changeover** **(Spec G)**

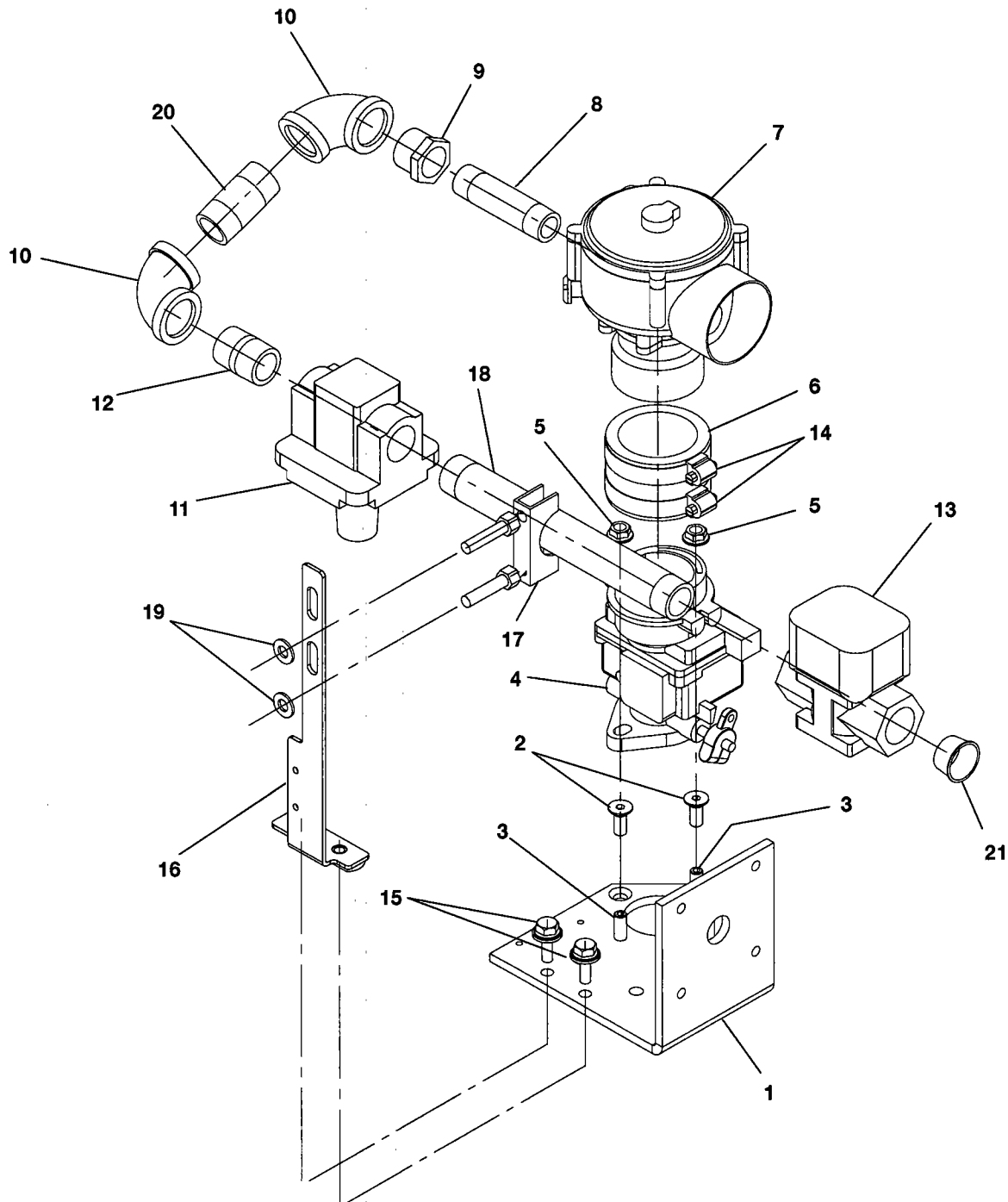


179-0728-01

Fuel System
Natural Gas/Gasoline With Manual Changeover
(Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0542	1	Hose, Adapter	25	179-0585	1	Choke and Carburetor Assembly (Includes Parts Indented Below)
2	148-0691	1	Carburetor, Natural Gas		141-0953	1	Carburetor
3	505-0002	1	Nipple, Pipe (1/2" x 3")		815-0103	1	Screw, Fillister Head (#10-24 x 1/2)
4	505-0021	1	Bushing, Reducer (3/4")		141-0908	1	Shaft, Choke
5	505-0132	2	Elbow, Pipe - 90° (3/4")		145-0544	1	Housing, Thermo
6	148-0597	1	Regulator, Natural Gas		141-0916	1	Plate, Choke
7	505-0102	1	Nipple, Close (3/4" x 1-1/4")		141-0906	2	Screw and Lock Washer (5-40)
8	307-0312	1	Valve, Solenoid		141-0909	1	Cork, Insulator
9	503-0465	2	Clamp, Hose		141-0905	1	Plate, Heatsink
10	821-6003-02	2	Screw, Hex Head (M8 x 20mm)		141-0910	1	Cork, Insulator
11	149-2492-02	1	Brackrt, Support	26	803-2001-08	2	Screw, Socket Set (M8 x 25mm)
12	155-1256	1	Clamp, Muffler	27	870-2055	2	Nut, Locking - Hex Flange Head (M8 x 1.25)
13	308-0150	1	Plate, Mounting - Switch	28	150-2622-02	1	Bracket, Governor
14	815-0652	2	Screw, Hex Washer Head - Thread Forming (#10-32 x 1/2)	29	803-2011-03	2	Screw, Socket - Countersunk (M8 x 20mm)
15	308-0005	1	Switch, Toggle (Single Pole - Double Throw)	30	813-0096	3	Screw, Machine - Round Head (#10-32 x 1/4)
16	307-2817-01	1	Relay	31	141-0911	1	Cover, Choke
17	815-0389	2	Screw, Hex Washer Head (M5 x 10)	32	505-0438	1	Nipple, Pipe (3/4" x 8")
18	149-2331	1	Pump, Fuel	33	526-2100	2	Washer, Flat
19	149-1774	1	Filter, Fuel	34	505-0085	1	Nipple, Pipe (3/4" x 2")
20	503-0883	2	Hose, Fuel	35	517-0094	1	Plug, Poly
21	149-2507	1	Line, Upper - Fuel				
22	503-0685	4	Clamp, Hose				
23	502-0004	1	Fitting, Inverted - Flare				
24	502-0313	1	Elbow, Barbed				

Fuel System Natural Gas (Spec G)

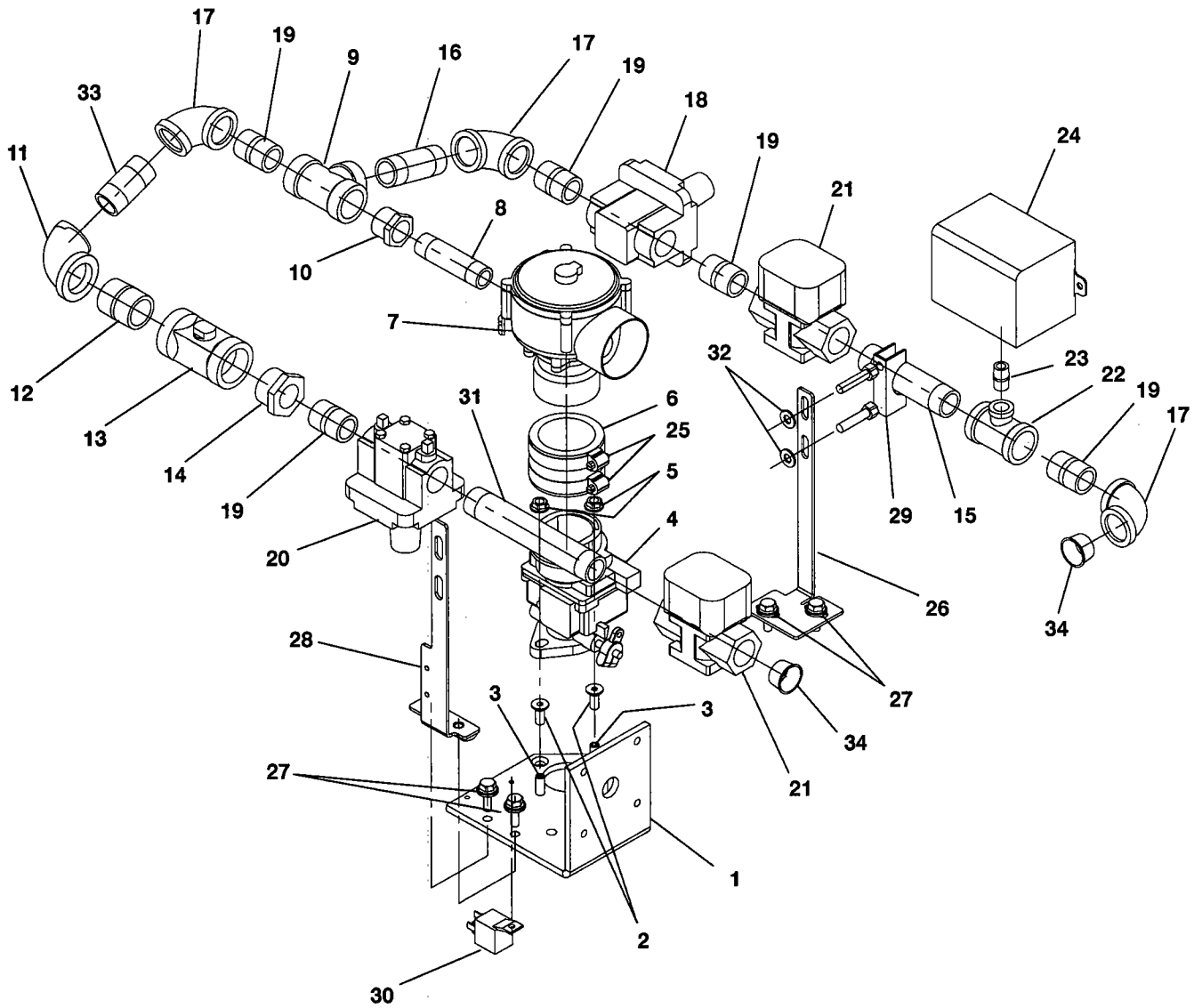


179-0728-02

**Fuel System
Natural Gas
(Spec G)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2622-02	1	Bracket, Governor	10	505-0132	2	Elbow, Pipe – 90° (3/4")
2	803-2011-03	2	Screw, Socket – Countersunk (M8 x 20mm)	11	148-0597	1	Regulator, Natural Gas
3	803-2001-08	2	Screw, Socket – Set (M8 x 25mm)	12	505-0102	1	Nipple, Close (3/4" x 1-1/4")
4	141-0954	1	Carburetor	13	307-0312	1	Valve, Solenoid
5	870-2055	2	Nut, Locking – Hex Flange Head (M8 x 1.25mm)	14	503-0465	2	Clamp, Hose
6	503-0542	1	Hose, Adapter	15	821-6003-02	2	Screw, Hex Head (M8 x 20mm)
7	148-0691	1	Carburetor, Natural Gas	16	149-2492-02	1	Bracket, Support
8	505-0002	1	Nipple, Pipe (1/2" x 3")	17	155-1256	1	Clamp, Muffler
9	505-0021	1	Bushing, Reducer (3/4")	18	505-0438	1	Nipple, Pipe (3/4" x 8")
				19	526-2100	2	Washer, Flat
				20	505-0085	1	Nipple, Pipe (3/4" x 2")
				21	517-0094	1	Plug, Poly

Fuel System
Natural Gas/Propane Vapor With Automatic Changeover
(Spec G)

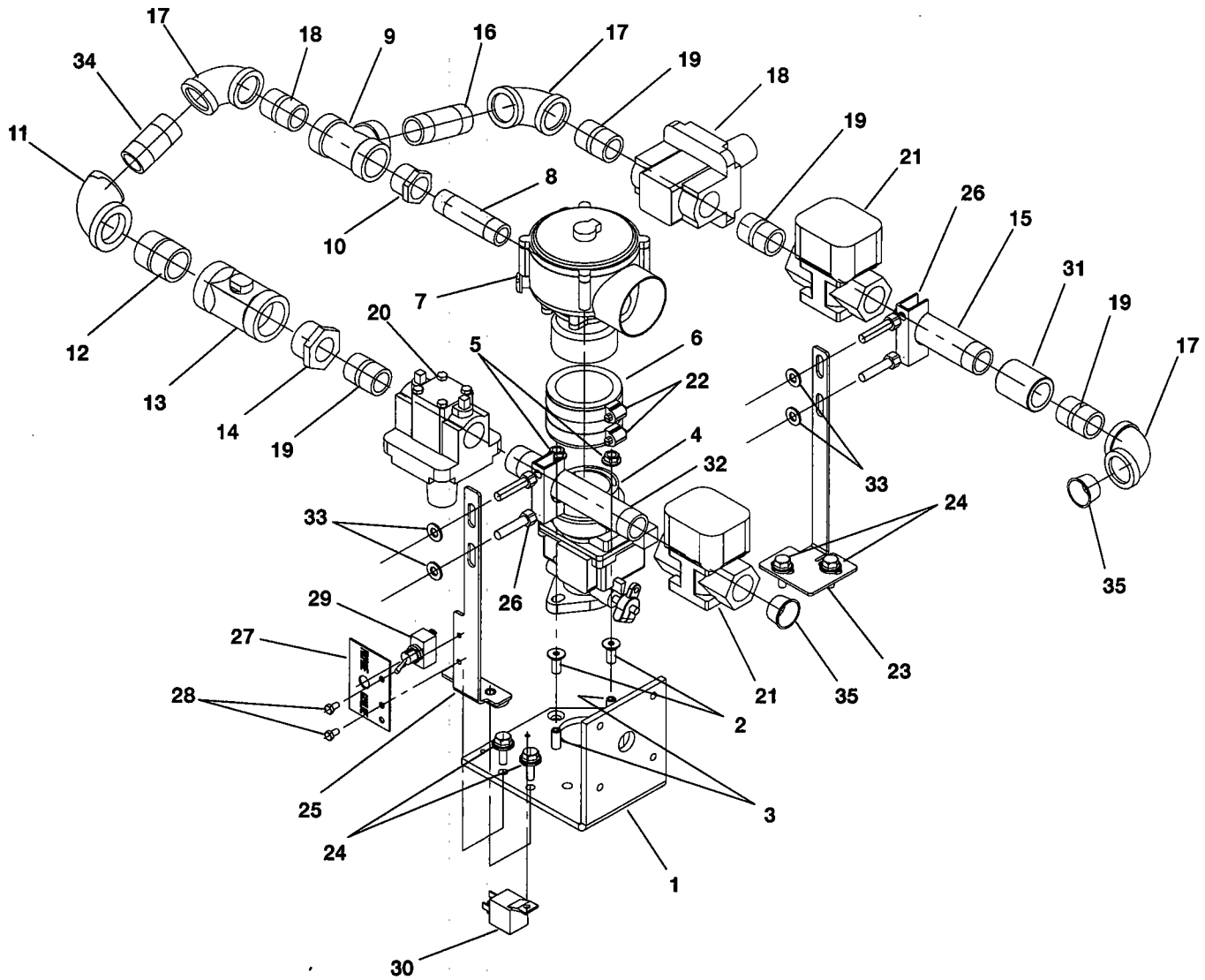


179-0728-03

Fuel System
Natural Gas/Propane Vapor With Automatic Changeover
(Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2622-02	1	Bracket, Governor	17	505-0132	3	Elbow, Pipe – 90° (3/4")
2	803-2011-03	2	Screw, Socket – Countersunk (M8 x 20mm)	18	148-0597	1	Regulator, Natural Gas
3	803-2001-08	2	Screw, Socket – Set (M8 x 25mm)	19	505-0102	5	Nipple, Close (3/4" x 1-1/4")
4	141-0954	1	Carburetor	20	148-0637	1	Regulator, Propane Vapor
5	870-2055	2	Nut, Locking – Hex Flange Head (M8 x 1.25mm)	21	307-0312	2	Valve, Solenoid
6	503-0542	1	Hose, Adapter	22	505-1496	1	Tee, Reducing
7	148-0691	1	Carburetor, Natural Gas	23	505-0099	1	Nipple, Pipe (1/4" x 7/8")
8	505-0002	1	Nipple, Pipe (1/2" x 3")	24	148-0998	1	Switch, Pressure
9	505-0166	1	Tee, Pipe (3/4")	25	503-0465	2	Clamp, Hose
10	505-0021	1	Bushing, Reducer (3/4")	26	149-2491-02	1	Bracket, Support
11	505-0356	1	Elbow, Pipe – 90° (3/4" x 1")	27	821-6003-02	4	Screw, Hex Head (M8 x 20mm)
12	505-0004	1	Nipple, Pipe (1" x 1-1/2")	28	149-2492-02	1	Bracket, Support
13	148-0626	1	Valve, Load Adjusting	29	155-1256	2	Clamp, Muffler
14	505-0129	1	Bushing, Reducer (1" x 3/4")	30	307-2817-01	1	Relay
15	505-0337	1	Nipple, Pipe (3/4" x 4")	31	505-0754	1	Nipple, Pipe (3/4" x 6")
16	505-0084	1	Nipple, Pipe (3/4" x 2-1/2")	32	526-2100	4	Washer, Flat
				33	505-0085	1	Nipple, Pipe (3/4" x 2")
				34	517-0094	2	Plug, Poly

Fuel System **Natural Gas/Propane Vapor With Manual Changeover** **(Spec G)**

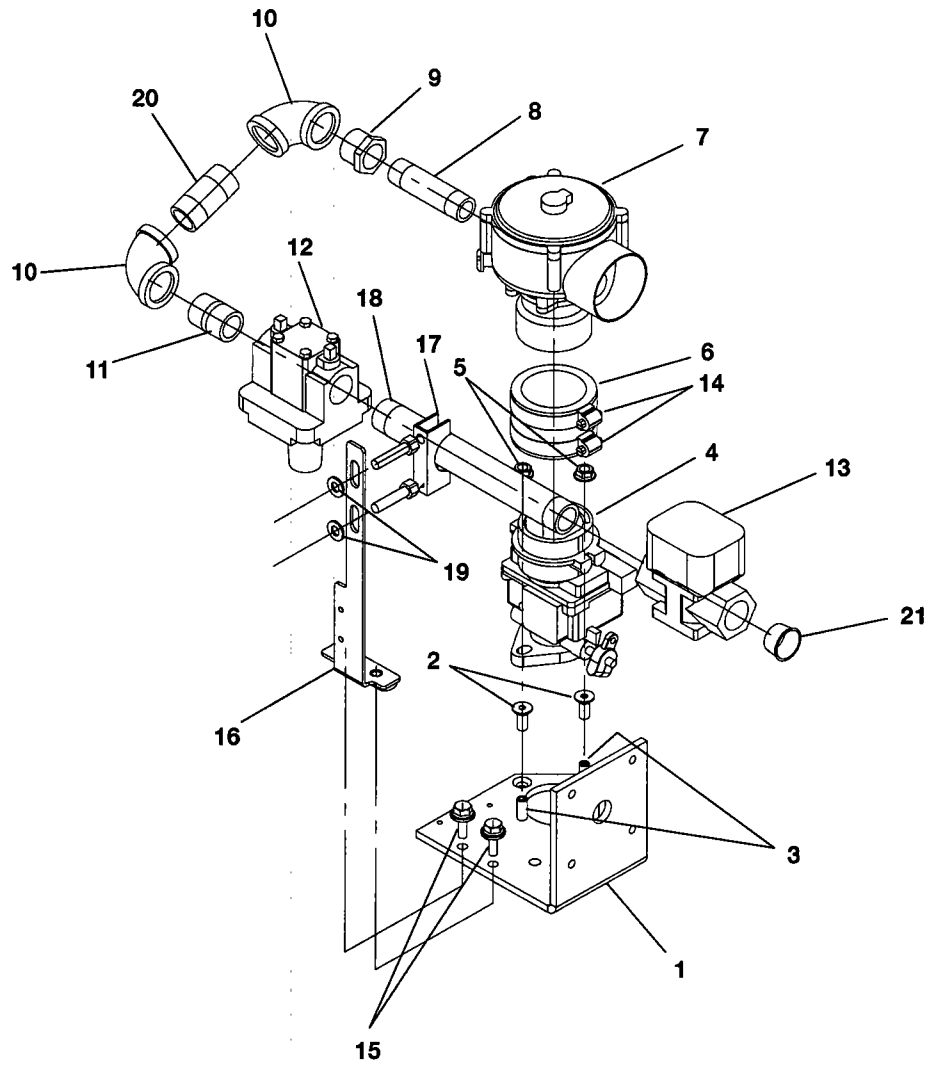


179-0728-04

Fuel System
Natural Gas/Propane Vapor With Manual Changeover
(Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2622-02	1	Bracket, Governor	19	505-0102	5	Nipple, Close (3/4" x 1-1/4")
2	803-2011-03	2	Screw, Socket – Countersunk (M8 x 20mm)	20	148-0637	1	Regulator, Propane Vapor
3	803-2001-08	2	Screw, Socket – Set (M8 x 25mm)	21	307-0312	2	Valve, Solenoid
4	141-0954	1	Carburetor	22	503-0465	2	Clamp, Hose
5	870-2055	2	Nut, Locking – Hex Flange Head (M8 x 1.25mm)	23	149-2491-02	1	Bracket, Support
6	503-0542	1	Hose, Adapter	24	821-6003-02	4	Screw, Hex Head (M8 x 20mm)
7	148-0691	1	Carburetor, Natural Gas	25	149-2492-02	1	Brackrt, Support
8	505-0002	1	Nipple, Pipe (1/2" x 3")	26	155-1256	2	Clamp, Muffler
9	505-0166	1	Tee, Pipe (3/4")	27	308-0150	1	Switch, Mounting Plate
10	505-0021	1	Bushing, Reducer (3/4")	28	815-0652	2	Screw, Hex Washer Head – Thread Forming (#10-32 x 1/2)
11	505-0356	1	Elbow, Pipe – 90° (3/4" x 1")	29	308-0005	1	Switch, Toggle (Single Pole – Double Throw)
12	505-0004	1	Nipple, Pipe (1" x 1-1/2")	30	307-2817-01	1	Relay
13	148-0626	1	Valve, Load Adjusting	31	505-0029	1	Coupling, Pipe (3/4")
14	505-0129	1	Bushing, Reducer (1" x 3/4")	32	505-0754	1	Nipple, Pipe (3/4" x 6")
15	505-0337	1	Nipple, Pipe (3/4" x 4")	33	526-2100	4	Washer, Flat
16	505-0084	1	Nipple, Pipe (3/4" x 2-1/2")	34	505-0085	1	Nipple, Pipe (3/4" x 2")
17	505-0132	3	Elbow, Pipe – 90° (3/4")	35	517-0094	2	Plug, Poly
18	148-0597	1	Regulator, Natural Gas				

**Fuel System
Propane Vapor
(Spec G)**

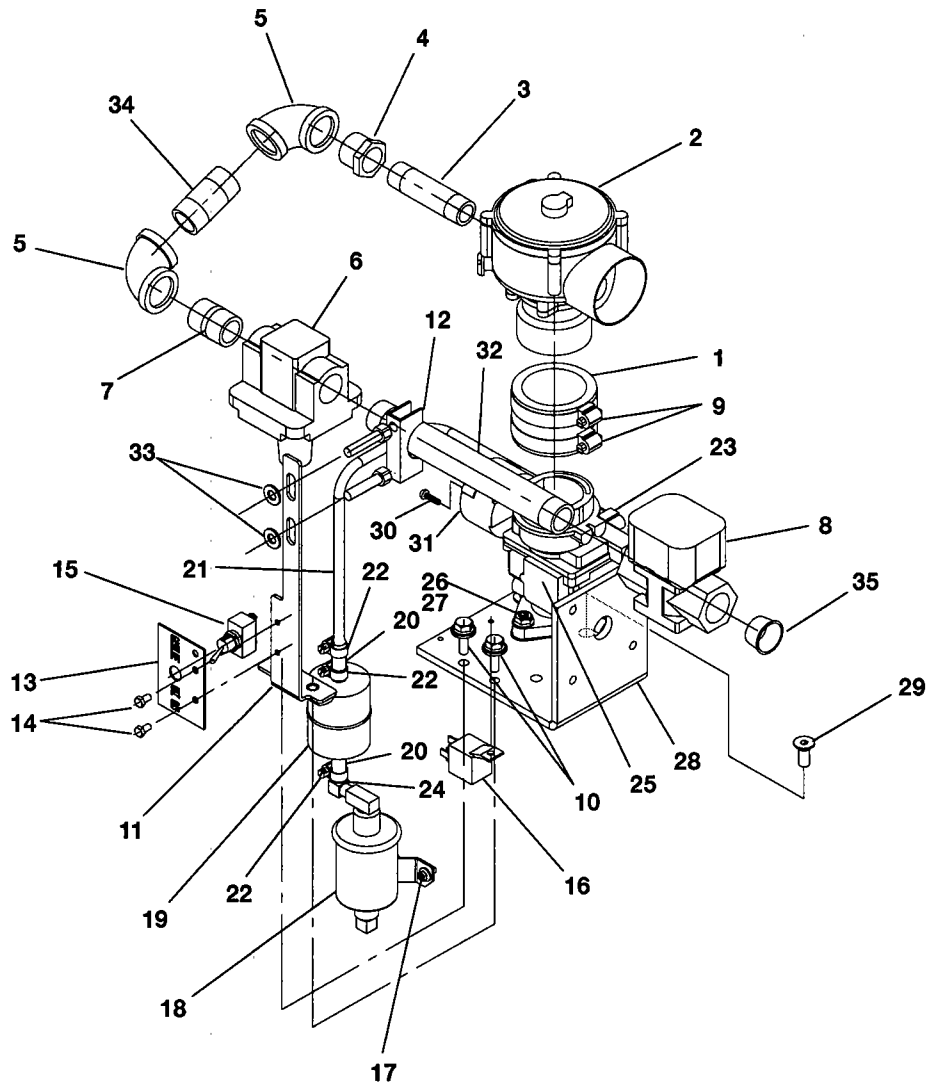


179-0728-05

**Fuel System
Propane Vapor
(Spec G)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2622-02	1	Bracket, Governor	10	505-0132	2	Elbow, Pipe – 90° (3/4")
2	803-2011-03	2	Screw, Socket – Countersunk (M8 x 20mm)	11	505-0102	1	Nipple, Close (3/4" x 1-1/4")
3	803-2001-08	2	Screw, Socket – Set (M8 x 25mm)	12	148-0637	1	Regulator, Propane Vapor
4	141-0954	1	Carburetor	13	307-0312	1	Valve, Solenoid
5	870-2055	2	Nut, Locking – Hex Flange Head (M8 x 1.25mm)	14	503-0465	2	Clamp, Hose
6	503-0542	1	Hose, Adapter	15	821-6003-02	2	Screw, Hex Head (M8 x 20mm)
7	148-0691	1	Carburetor, Natural Gas	16	149-2492-02	1	Bracket, Support
8	505-0002	1	Nipple, Pipe (1/2" x 3")	17	155-1256	1	Clamp, Muffler
9	505-0021	1	Bushing, Reducer (3/4")	18	505-0438	1	Nipple, Pipe (3/4" x 8")
				19	526-2100	2	Washer, Flat
				20	505-0085	1	Nipple, Pipe (3/4" x 2")
				21	517-0094	1	Plug, Poly

Fuel System
Propane Vapor/Gasoline With Manual Changeover
(Spec G)

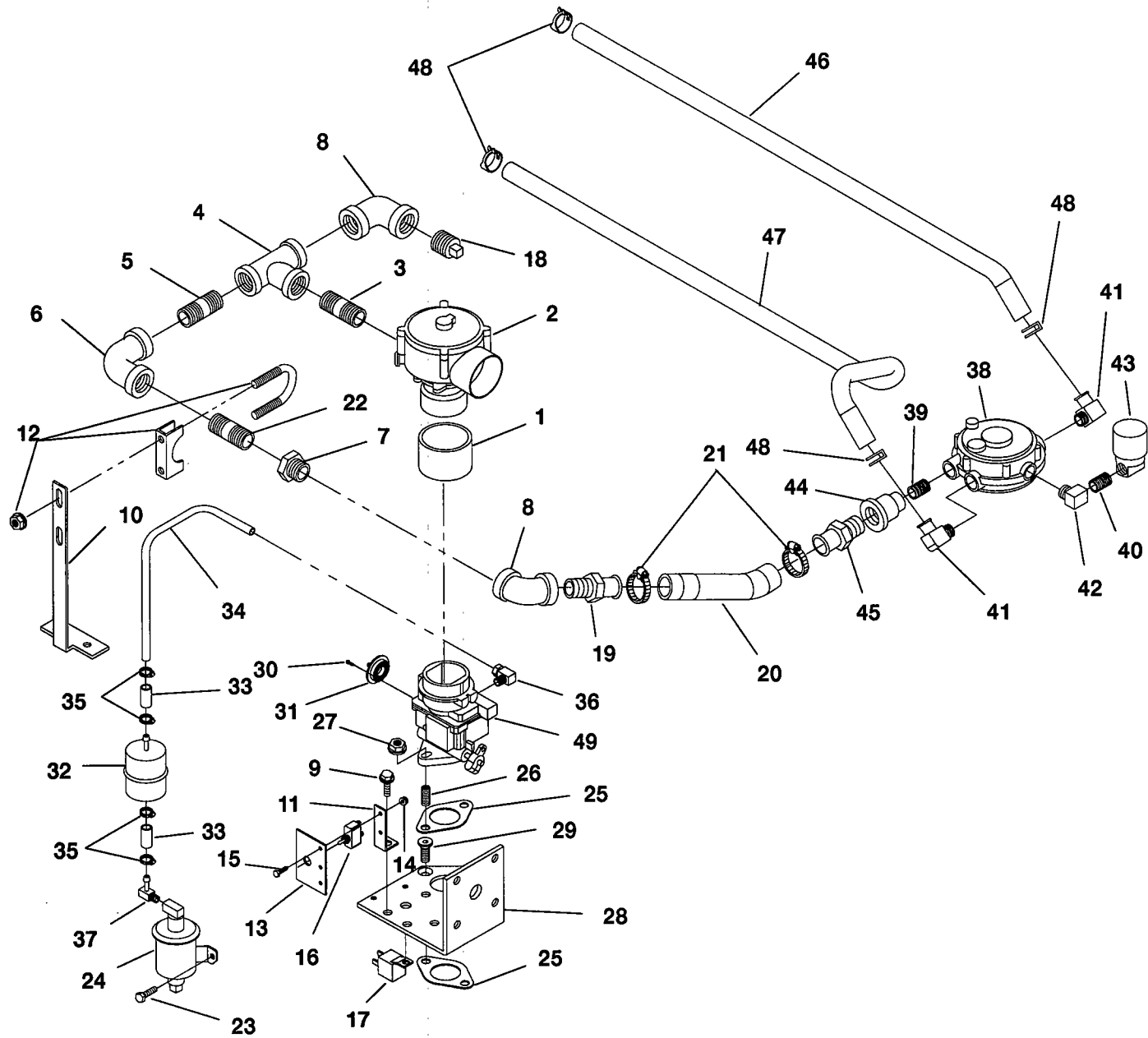


179-0728-06

Fuel System
Propane Vapor/Gasoline With Manual Changeover
(Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0542	1	Hose, Adapter	25	179-0585	1	Choke and Carburetor Assembly (Includes Parts Indented Below)
2	148-0691	1	Carburetor, Natural Gas				
3	505-0002	1	Nipple, Pipe (1/2" x 3")		141-0953	1	Carburetor
4	505-0021	1	Bushing, Reducer (3/4")		815-0103	1	Screw, Fillister Head (#10-24 x 1/2)
5	505-0132	2	Elbow, Pipe - 90° (3/4")				
6	148-0637	1	Regulator, Propane Vapor		141-0908	1	Shaft, Choke
7	505-0102	1	Nipple, Close (3/4" x 1-1/4")		145-0544	1	Housing, Thermo
8	307-0312	1	Valve, Solenoid		141-0916	1	Plate, Choke
9	503-0465	2	Clamp, Hose		141-0906	2	Screw and Lock Washer (5-40)
10	821-6003-02	2	Screw, Hex Head (M8 x 20mm)				
11	149-2492-02	1	Brackrt, Support		141-0909	1	Cork, Insulator
12	155-1256	1	Clamp, Muffler		141-0905	1	Plate, Heatsink
13	308-0150	1	Plate, Mounting - Switch		141-0910	1	Cork, Insulator
14	815-0652	2	Screw, Hex Washer Head - Thread Forming (#10-32 x 1/2)	26	803-2001-08	2	Screw, Socket Set (M8 x 25mm)
15	308-0005	1	Switch, Toggle (Single Pole - Double Throw)	27	870-2055	2	Nut, Locking - Hex Flange Head (M8 x 1.25)
16	307-2817-01	1	Relay	28	150-2622-02	1	Bracket, Governor
17	815-0389	2	Screw, Hex Washer Head (M5 x 10)	29	803-2011-03	2	Screw, Socket - Countersunk (M8 x 20mm)
18	149-2331	1	Pump, Fuel	30	813-0096	3	Screw, Machine - Round Head (#10-32 x 1/4)
19	149-1774	1	Filter, Fuel	31	141-0911	1	Cover, Choke
20	503-0883	2	Hose, Fuel	32	505-0438	1	Nipple, Pipe (3/4" x 8")
21	149-2507	1	Line, Upper - Fuel	33	526-2100	2	Washer, Flat
22	503-0685	4	Clamp, Hose	34	505-0085	1	Nipple, Pipe (3/4" x 2")
23	502-0004	1	Fitting, Inverted - Flare	35	517-0094	1	Plug, Poly
24	502-0313	1	Elbow, Barbed				

Fuel System Propane/Gasoline (Spec G)

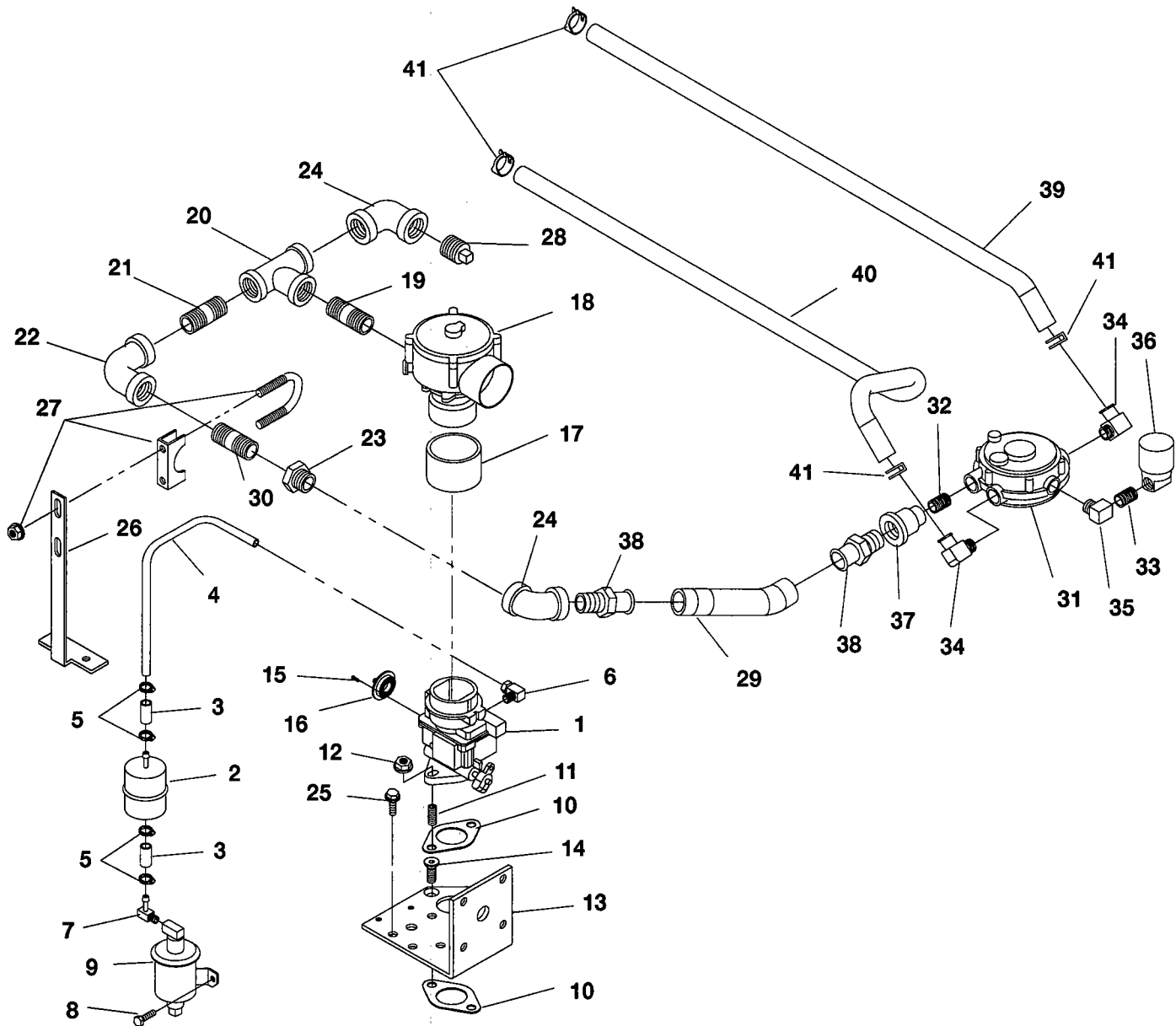


179-0733-01

Fuel System Propane/Gasoline (Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0542	1	Hose, Adapter	27	870-2056	2	Nut, Lock – Flange (m10 x 1-1/2)
2	148-0691	1	Carburetor, Natural Gas	28	150-2622-02	1	Bracket, Governor
3	505-0080	1	Nipple, Pipe (1/2NPT x 5)	29	803-2011-03	2	Screw, Socket – Countersunk (m8 x 1-1/4 x 20)
4	505-0167	1	Tee, Reducing	30	813-0096	3	Screw, Machine – Round Head (#10-32 x 1/4)
5	505-0085	1	Nipple, Pipe (3/4NPT x 2)	31	141-0911	1	Cover, Choke (Includes Spring and Element)
6	505-0356	1	Elbow (90 deg.)	32	149-1774	1	Filter, Fuel
7	505-0129	1	Bushing, Reducer (1NPT x 3/4NPT)	33	503-0883	2	Hose, Fuel
8	505-0132	2	Elbow, Pipe (90 deg.)	34	149-2507	1	Line, Upper – Fuel
9	821-6003-02	2	Screw, Hex Head – SEMS (m8 x 1-1/4 x 20)	35	503-0685	4	Clamp, Hose
10	149-2492-02	1	Bracket, Support	36	502-0004	1	Fitting, Inverted Flare
11	306-0155	1	Bracket, Mounting – Solenoid Switch	37	502-0313	1	Elbow, Barbed
12	155-1239	1	Clamp, Muffler (1-1/2)	38	148-0737	1	Regulator
13	308-0150	1	Plate, Mounting – Switch	39	505-0100	1	Nipple, Close (1/4NPT)
14	870-0131	2	Nut, SEMS – ET (#10-32)	40	505-0099	1	Nipple, Close (1/4NPT)
15	813-0098	2	Screw, Machine – Hex Head (#10-32 x .38)	41	502-0942	2	Connector, Hose (90 deg.)
16	308-0005	1	Switch, Toggle (SPDT)	42	502-0054	1	Elbow, Barbed
17	307-2817-01	1	Relay	43	307-0268	1	Valve, Solenoid
18	505-0130	1	Plug, Square Head (3/4NPT)	44	505-0307	1	Coupling, Reducer
19	502-0971	1	Connector, Hose	45	502-0971	1	Connector, Hose
20	503-1103	1	Hose, LP (1" ID x 6")	46	503-1168	–	Hose – Bulk (Order By The Foot – 3 Feet Required)
21	503-0398	2	Clamp, Hose	47	503-1168	–	Hose – Bulk (Order By The Foot – 3 Feet Required)
22	505-0903	1	Nipple, Pipe (3/4NPT x 14.6")	48	503-0131	4	Clamp, Hose
23	815-0389	2	Screw, Hex Washer Head (m5 x .8 x 10)	49	141-0953	1	Carburetor
24	149-2331	1	Pump, Fuel				
25	141-0971	2	Gasket, Carburetor				
26	803-2001-08	2	Screw, Set – Socket (m8 x 1-1/4 x 25)				

Fuel System Propane Liquid (Spec G)

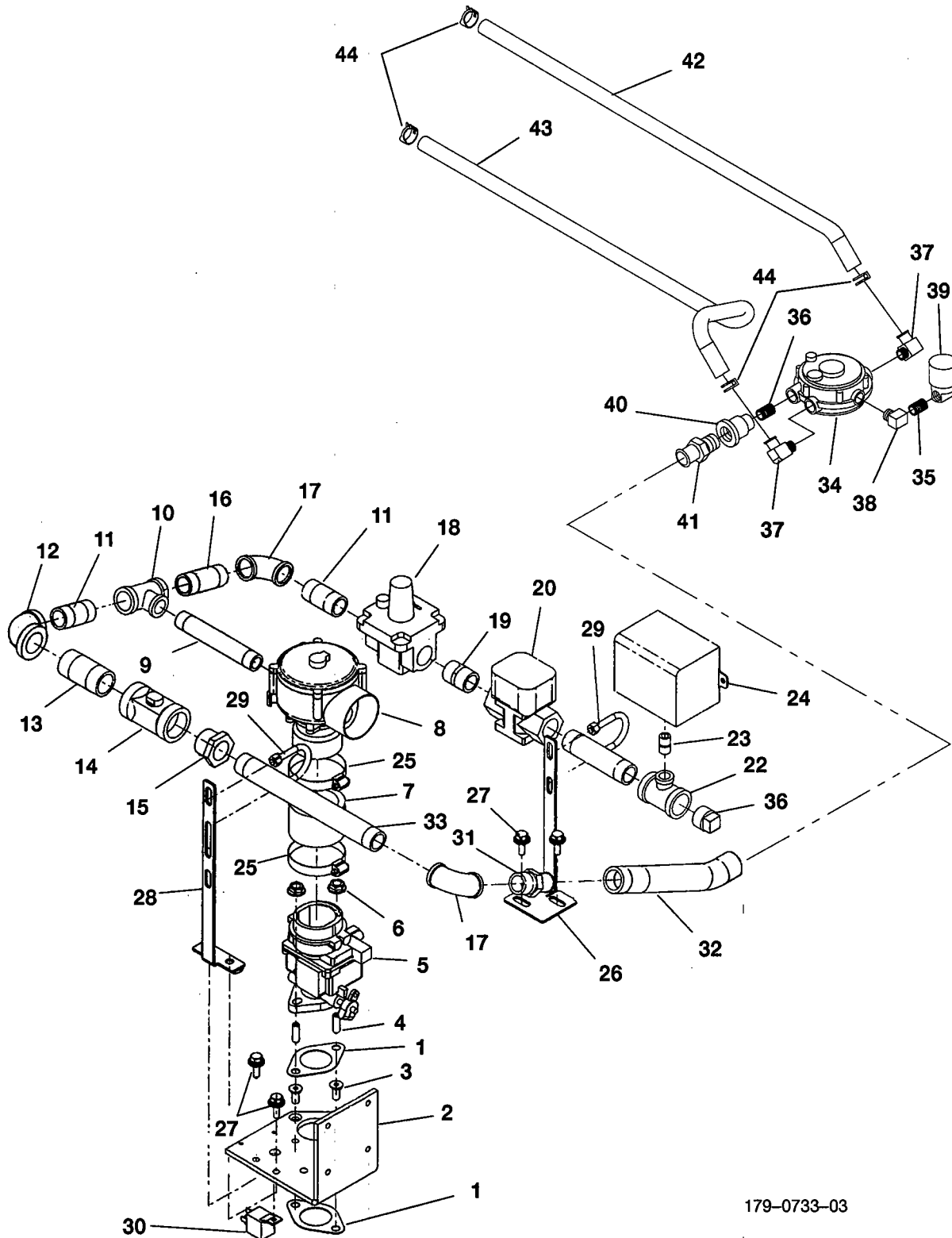


179-0733-02

Fuel System Propane Liquid (Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	141-0954	1	Carburetor	21	505-0085	1	Nipple, Pipe (3/4NPT x 2")
2	149-1774	1	Filter, Fuel	22	505-0356	1	Elbow (90 deg.)
3	503-0883	2	Hose, Fuel	23	505-0129	1	Bushing, Reducing (1NPT x 3/4NPT)
4	149-2507	1	Line, Upper - Fuel	24	505-0132	2	Elbow (90 deg.)
5	503-0685	4	Clamp, Hose	25	821-6003-02	2	Screw, Hex Head - SEMS (m8 x 1-1/4 x 20)
6	502-0004	1	Fitting, Inverted Flare	26	149-2492-02	1	Bracket, Support
7	502-0313	1	Elbow, Barbed	27	155-1239	1	Clamp, Muffler
8	815-0389	2	Screw, Hex Washer Head (m5 x .8 x 10)	28	505-0130	1	Plug, Square Head (3/4NPT)
9	149-2331	1	Pump, Fuel	29	503-1103	1	Hose, LP (1"ID x 8.6")
10	141-0971	2	Gasket, Carburetor	30	505-0903	1	Nipple, Pipe (3/4NPT x 14.6")
11	803-2001-08	2	Screw, Set - Socket (m8 x 1-1/4 x 25)	31	148-0737	1	Regulator
12	870-2056	2	Nut, Lock - Flange (m10 x 1-1/2)	32	505-0100	1	Nipple, Close (1/2NPT)
13	150-2622-02	1	Bracket, Governor	33	505-0099	1	Nipple, Close (1/4NPT)
14	803-2011-03	2	Screw, Socket - Countersunk (m8 x 1-1/4 x 20)	34	502-0942	2	Connector, Hose (90 deg.)
15	813-0096	3	Screw, Machine - Round Head (#10-32 x 1/4)	35	502-0054	1	Elbow, Barbed
16	141-0911	1	Cover, Choke (Includes spring and element)	36	307-0268	1	Valve, Solenoid
17	503-0542	1	Hose, Adapter	37	505-0307	1	Coupling, Reducer
18	148-0691	1	Carburetor, Natural Gas	38	502-0971	2	Connector, Hose
19	505-0080	1	Nipple, Pipe (1/2NPT x 5")	39	503-1168	-	Hose - Bulk (Order By The Foot - 3 Feet Required)
20	505-0167	1	Tee, Reducing	40	503-1168	-	Hose - Bulk (Order By The Foot - 3 Feet Required)
				41	503-0131	4	Clamp, Hose

Fuel System **Natural Gas/Propane Liquid With Automatic Changeover** **(Spec G)**

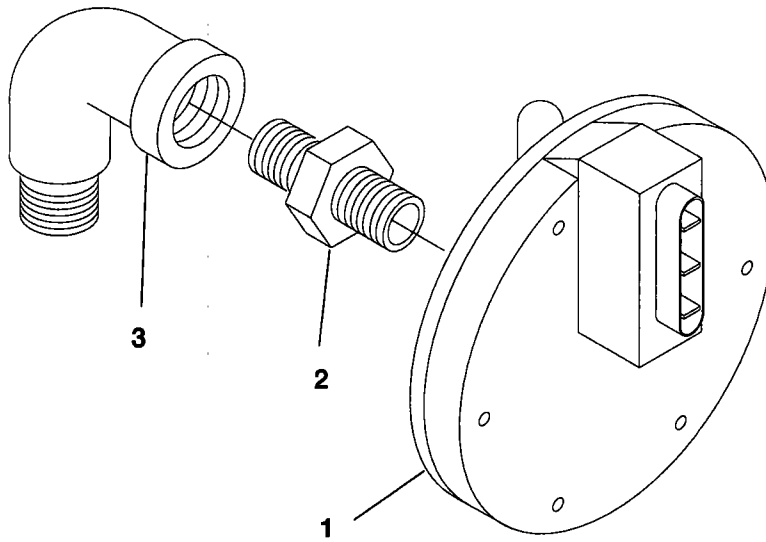


179-0733-03

Fuel System
Natural Gas/Propane Liquid With Automatic Changeover
(Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	141-0971	2	Gasket, Carburetor	23	505-0099	1	Nipple, Pipe (1/4NPT x 7/8)
2	150-2622-02	1	Bracket, Governor	24	148-0998	1	Switch, Pressure (12 volt)
3	803-2011-03	2	Screw, Socket - Countersunk (m8 x 1-1/4 x 20)	25	503-0465	1	Clamp, Hose
4	803-2001-08	2	Screw, Socket - Set (m8 x 1-1/4 x 25)	26	149-2491-02	1	Bracket, Support
5	141-0954	1	Carburetor	27	821-6003-02	4	Screw, Hex Head - SEMS (m8 x 1-1/4 x 20)
6	870-2056	2	Nut, Lock - Flange (m10 x 1-1/2)	28	149-2492-02	1	Bracket, Support
7	503-0542	1	Hose, Adapter	29	155-1239	2	Clamp, Muffler
8	148-0691	1	Carburetor, Natural Gas	30	307-2817-01	1	Relay
9	505-0080	1	Nipple, Pipe (1/2NPT x 5)	31	502-0971	1	Connector, Hose
10	505-0167	1	Tee, Reducing	32	503-1103	1	Hose, LP
11	505-0085	1	Nipple, Pipe (3/4NPT x 2)	33	505-0268	1	Nipple, Pipe (3/4NPT x 9)
12	505-0356	1	Elbow, 90 deg.	34	148-0737	1	Regulator
13	505-0086	1	Nipple, Pipe (1NPT x 2-1/2)	35	505-0100	1	Nipple, Close (1/2NPT)
14	148-0626	1	Valve, Load Adjusting	36	505-0099	1	Nipple, Close
15	505-0129	1	Bushing, Reducer (1NPT x 3/4NPT)	37	502-0942	2	Connector, Hose (90 deg.)
16	505-0084	1	Nipple, Pipe (3/4 x 2-1/2)	38	502-0054	1	Elbow, Barbed
17	505-0132	2	Elbow, Pipe - 90 deg.	39	307-0268	1	Valve, Solenoid
18	148-0597	1	Regulator, Natural Gas	40	505-0307	1	Coupling, Reducer
19	505-0102	1	Nipple, Close (3/4)	41	502-0971	1	Connector, Hose
20	307-0312	1	Valve, Solenoid (12 volt)	42	503-1168	1	Hose - Bulk (Order By The Foot - 3 Feet Required)
21	505-0337	1	Nipple, Pipe (3/4NPT x 4)	43	503-1168	1	Hose - Bulk (Order By The Foot - 3 Feet Required)
22	505-1496	1	Tee, Reducing	44	503-0131	4	Clamp, Hose

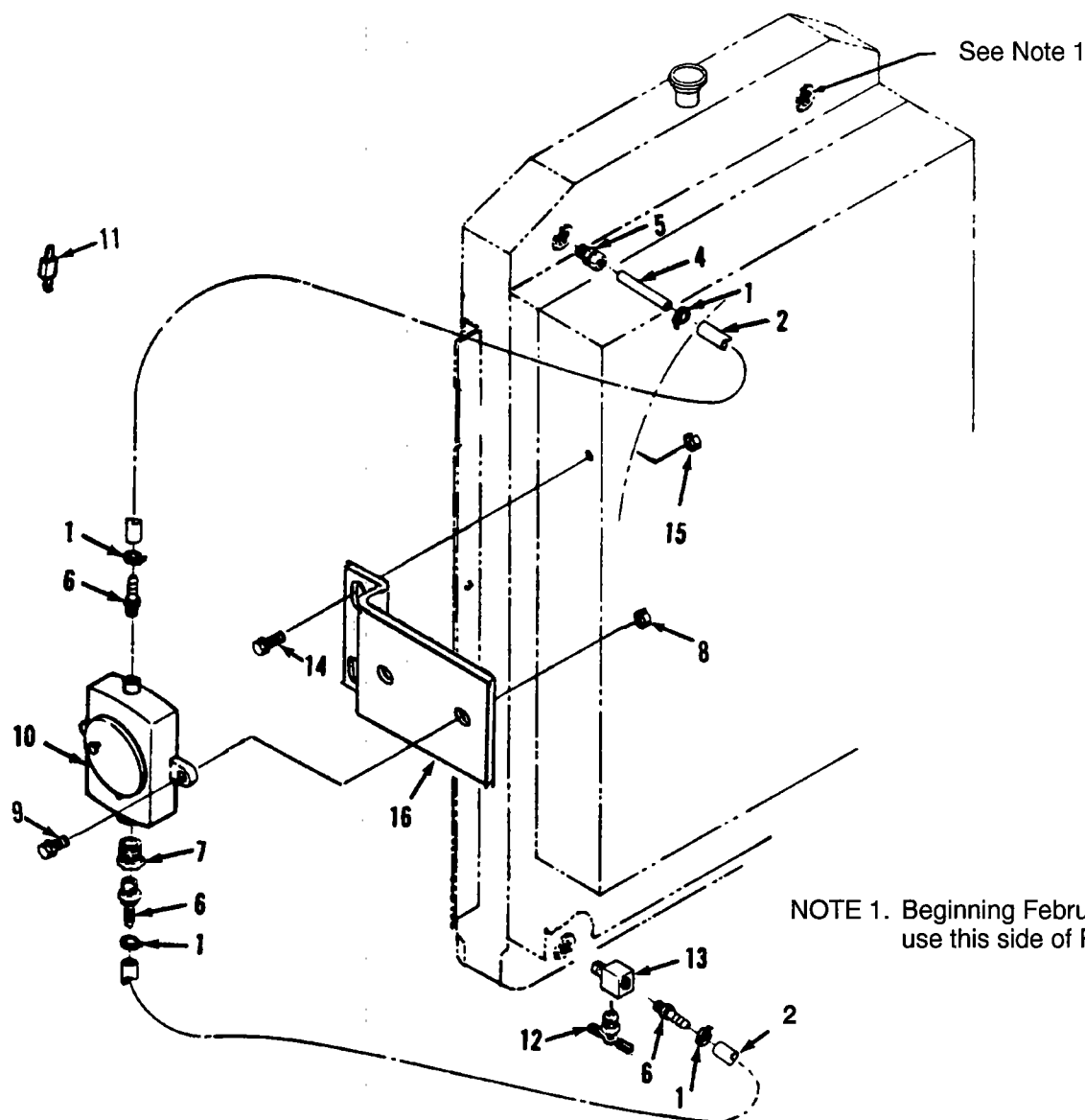
Vacuum Switch (Spec G)



179-2716

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0367-01	1	Switch, Vacuum (S13)	3	505-0011	1	Elbow, Street (90 deg.)
2	505-1371	1	Nipple, Close (1/4 x 1/8)				

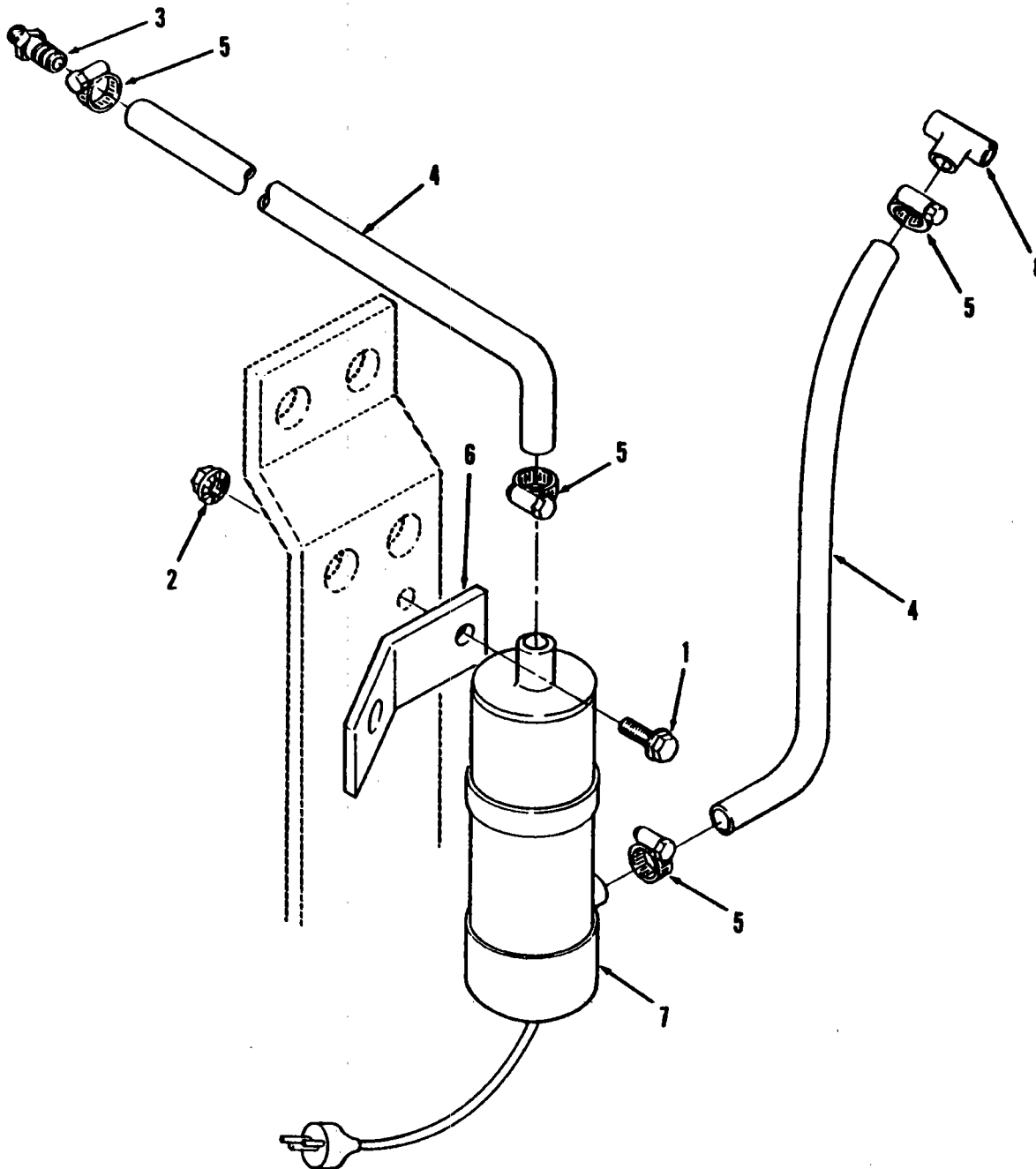
Low Coolant Level Switch



NOTE 1. Beginning February 1989,
use this side of Radiator.

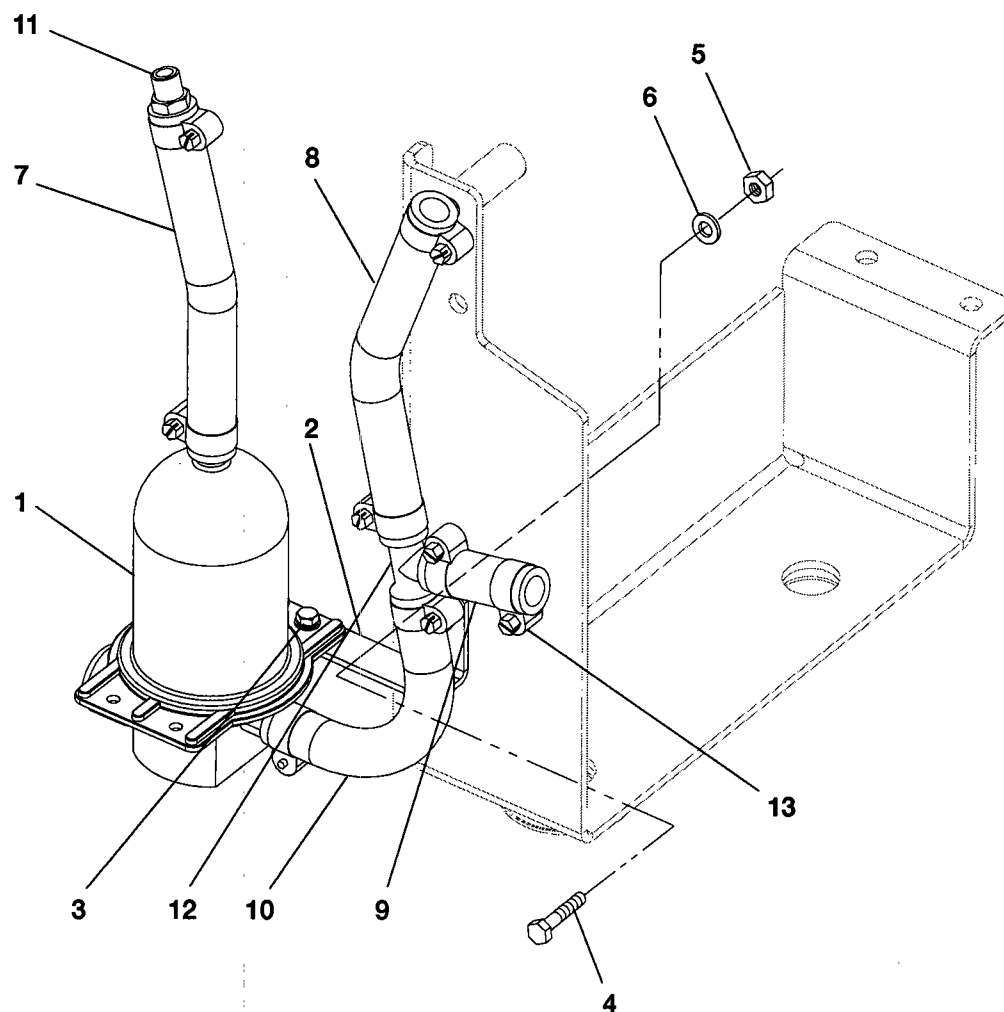
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0685	4	Clamp, Hose	10	193-0329	1	Switch, Coolant Level (S7)
2	503-1418	25"	Hose, Rubber	11	357-0030	1	Rectifier
4	130-2053	1	Tube (1/4 OD x 2)	12	504-0003	1	Cock, Drain
5	502-0809	1	Adapter, Tube (Blind Hole Fitting) (5/8 OD x 1/4 Tube)	13	502-0164	1	Tee, Pipe - Street (1/4 NPT)
6	502-0801	3	Adapter, Pipe to Hose	14	821-0014	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2)
7	502-0029	3	Bushing, Reducer - Hex - Brass (1/2 NPT x 1/4 NPT)	15	870-0251	2	Nut, Self-Locking - Hex Washer Head (5/16-18)
8	870-0212	2	Nut, Self-Locking - Hex Washer Head (1/4-20)	16	130-2476	1	Plate, Mounting - Switch
9	821-0015	2	Screw, Self-Locking - Hex Washer Head (1/4-20 x 3/4)				

Engine Coolant Heater (Spec A-F)



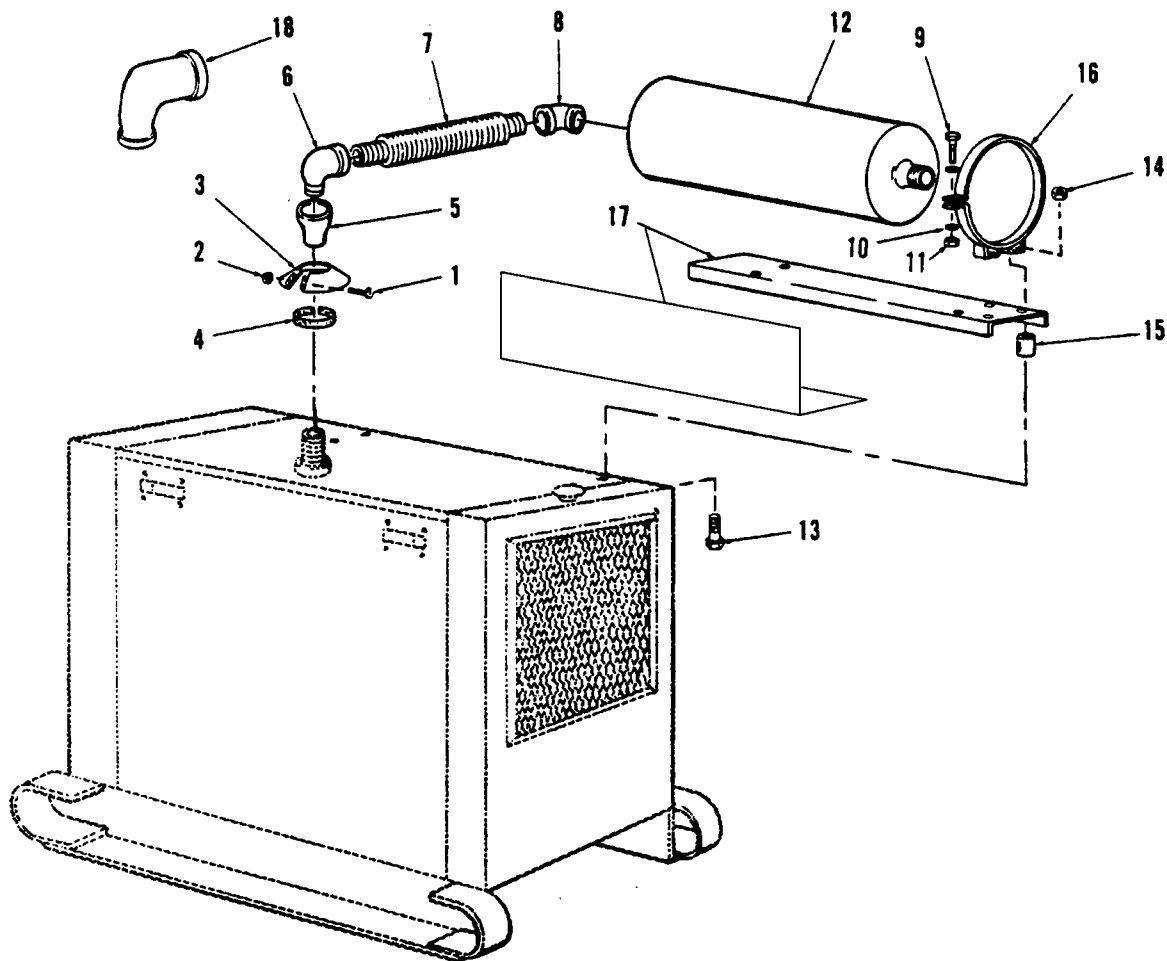
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0018	1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8)	5	503-0183	6	Clamp, Hose
2	870-0212	1	Nut, Self-Locking - Hex Washer Head (1/4-20)	6	130-0755	1	Bracket, Mounting
3	502-0613	1	Connector, Hose	7	333-0203	1	Heater, Tank - 850 Watt, 115 Volt (Includes Hose Connector, Cord and Mounting Strap)
4	503-1552-01	2	Hose (5/8 ID x 14)	8	502-0870	1	Tee, Hose

Engine Coolant Heater (Spec G)



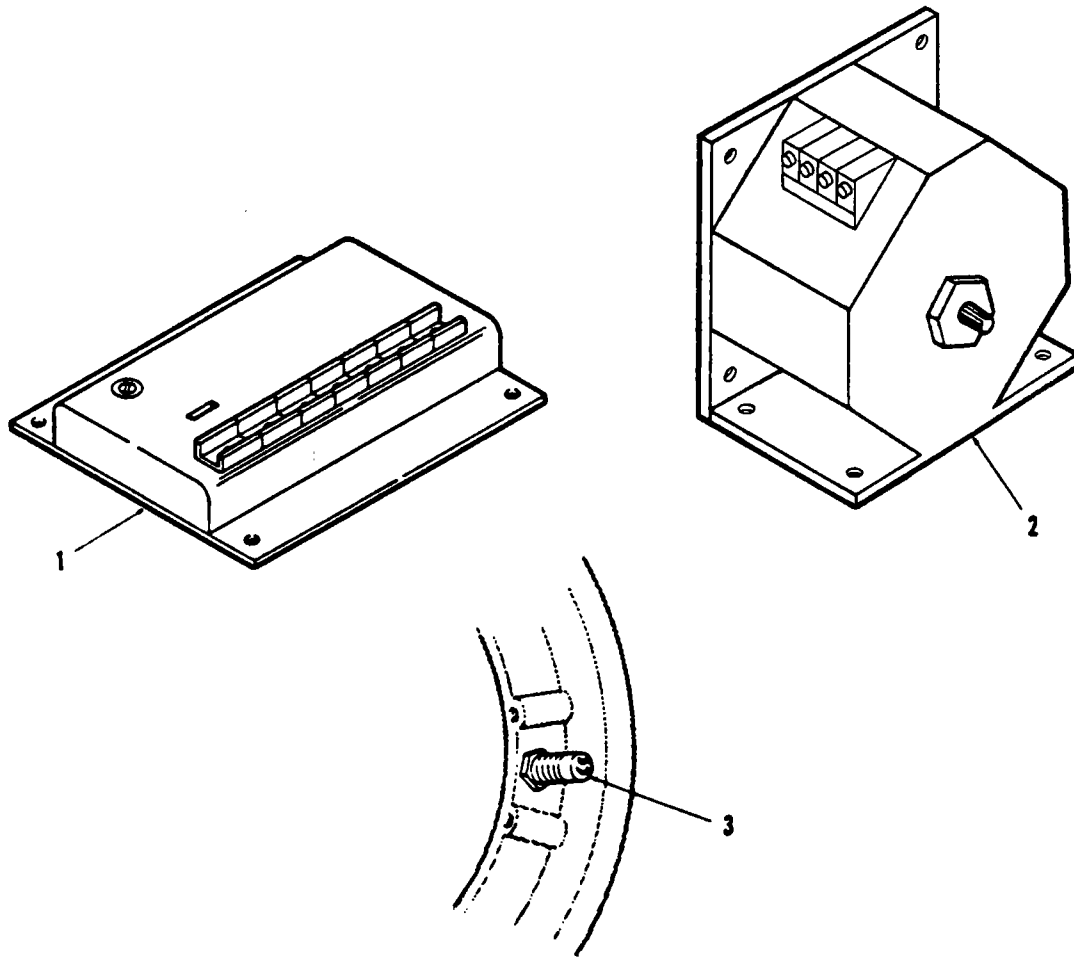
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0588-01	1	Heater, Engine Coolant	8	503-0833	1	Hose, Engine Coolant
2	333-0623	1	Bracket, Mounting - Heater Tank	9	503-1552-03	1	Hose (2.5")
3	821-6002-03	2	Screw, Hex Head (M6)	10	503-1552-01	1	Hose (10")
4	821-6003-02	1	Screw, Hex Head (M8)	11	502-0613	1	Connector, Hose (1/4)
5	860-2008	1	Nut, Hex (M8)	12	502-0870	1	Tee
6	526-0399-16	1	Washer, Flat	13	503-0183	8	Clamp, Hose
7	503-0261	1	Hose (8.5")				

Muffler



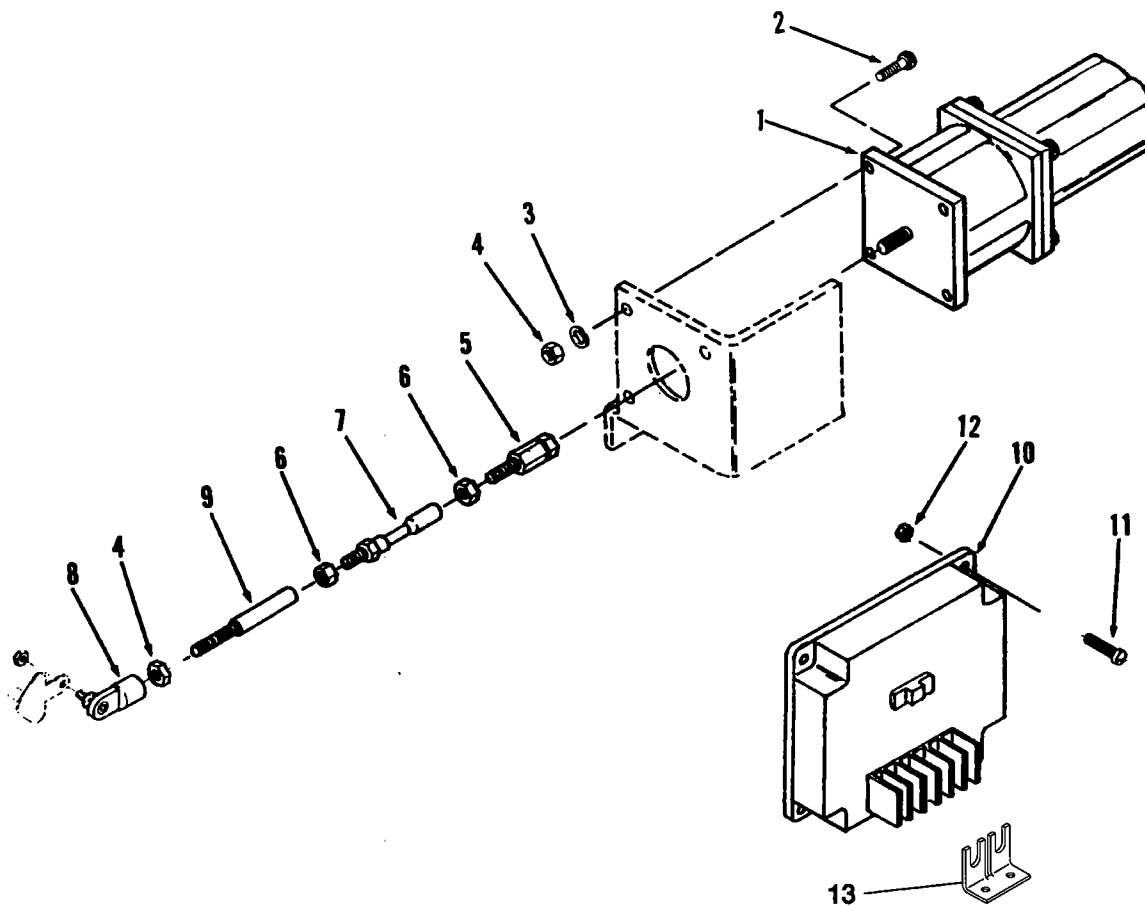
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0105	2	Screw, Machine – Round Head (#10-32 x 1)	10	526-0113	4	Washer, Flat (11/32 ID x 1 OD x 3/32 THK)
2	870-0188	2	Nut, Self-Locking – Hex Washer Head (#10-32)	11	870-0257	2	Nut, Self-Locking – Hex Washer Head (5/16-18)
3	155-2005	1	Shield, Rain	12	155-0360	1	Muffler, Exhaust
4	895-0157	1	Strip, Asbestos (2 x 8-1/2 x 1/16)	13	800-0023	4	Screw, Cap – Hex Head (5/16-18 x 1-1/2)
5	505-0036	1	Coupling, Pipe – Reducing (1-1/2 NPT x 1-1/4 NPT) Used through 1981	14	870-0257	4	Nut, Self-Locking – Hex Washer Head (5/16-18)
6	505-0462	1	Elbow, Pipe – Street – 90 deg. (1-1/2 NPT) Used through 1981	15	155-1926	4	Spacer, Sleeve
7	155-0927	1	Tube, Exhaust – Flexible (1-1/2 NPT x 13-1/2)	16	140-0078	2	Band, Mounting
8	505-0043	1	Elbow, Pipe – 90 deg. (1-1/2 NPT)	17	155-1924	1	Shield, Heat Spec A-F
9	800-0033	2	Screw, Cap – Hex Head (5/16-18 x 2)		155-3018	1	Spec G
				18	505-0183	1	Elbow, Pipe – Reducing (1-1/2 NPT x 1-1/4 NPT) Begin 1982

Governor (Spec A-D)



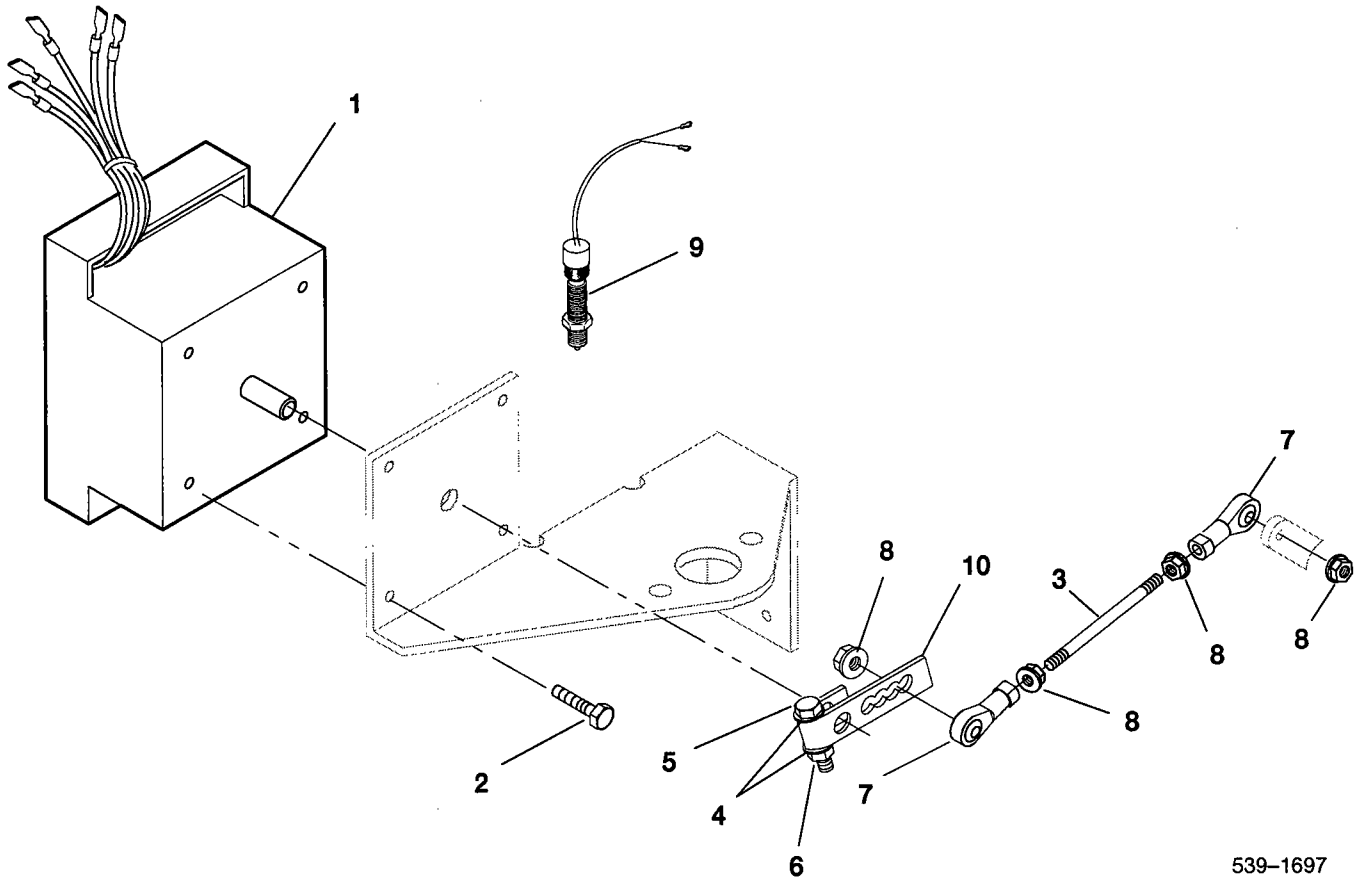
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0565	1	Control Unit – Governor (12 VDC)	3	150-1406	1	Pickup, Magnetic (E6)
2	151-0566	1	Actuator, Governor (12 VDC)				

Governor (Spec E-F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2331	1	Actuator, Linear	8	150-0939	1	Joint, Ball
2	813-0103	3	Screw, Machine – Round Head (#10-32 x 3/4)	9	151-0714	1	Rod, Governor
3	850-0030	3	Washer, Lock (#10)	10	151-0713-01	1	Control, Governor
4	870-0053	4	Nut, Hex (#10-32)	11	813-0100	4	Screw, Machine – Round Head (#10-32 x 1/2)
5	150-2314	1	Adapter, Governor Linkage	12	870-0131	4	Nut, Hex W/ET
6	115-0025	2	Nut, Tappet	13	332-2605	1	Jumper
7	150-1733	1	Joint, Ball				

Governor (Spec G)

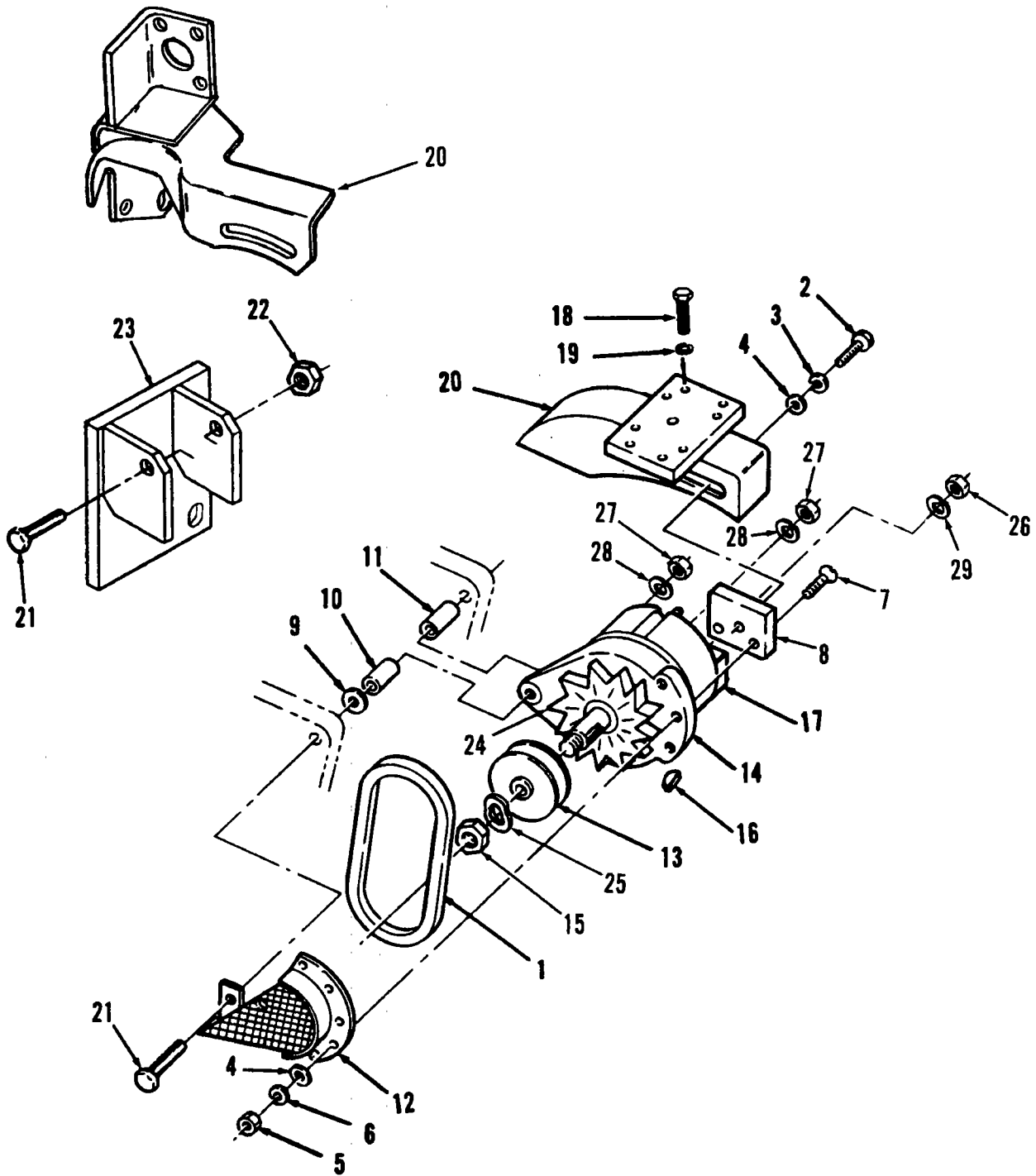


539-1697

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2646	1	Governor (Includes Lever)
2	801-0003	4	Screw, Cap - Hex Head (1/4-28 x 1)
3	150-2666	1	Rod, Governor
4	526-0018	2	Washer, Flat (1/4)
5	800-0008	1	Screw, Cap - Hex Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	870-0065	1	(1/4-20 x 1-1/4) Nut, Self-Locking (1/4-20)
7	150-0939	2	Joint, Ball
8	870-0131	4	Nut, SEMS - W/ET (#10-32)
9	150-2651	1	Pickup, Magnetic
10	150-2620	1	Lever, Governor

Alternator

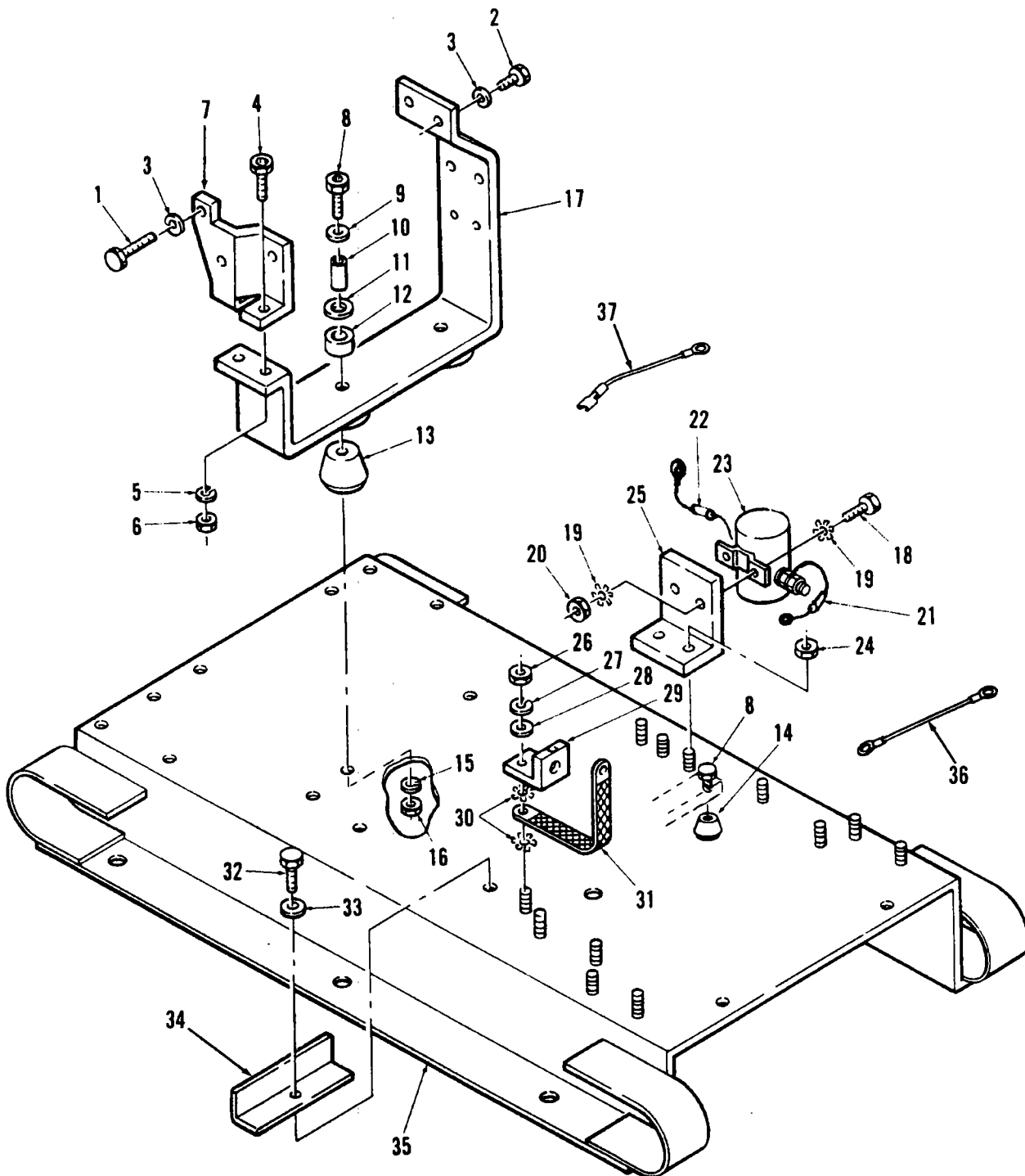


Alternator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0112	1	Belt, Drive	15			Nut, Hex
2	800-0048	1	Screw, Cap – Hex Head (3/8-16 x 3/4)		191-0941	1	* Spec A, B and begin Spec D (5/16-18)
3	850-0050	1	Washer, Lock – Spring (3/8)		870-2161	1	Spec C (M16)
4			Washer, Flat	16	515-0093	1	*Key, Woodruff (#5)
	526-0030	1	Spec A, B and begin Spec D (3/8)	17	191-1390	1	*Regulator, Voltage
	526-0113	3	Spec C (5/16)	18	130-1808	3	Screw, Cap – Hex Head (M8 x 1-1/4 x 25MM)
5			Nut, Hex	19	850-2008	3	Washer, Lock – Spring (M8)
	870-0151	2	Spec A, B and begin Spec D (5/16-18)	20			Arm, Adjusting – With Governor Mounting Plate
	870-2055	2	Spec C (Flange Locking) (M8 x 1-1/4)		191-1368	1	Spec A, B, D
6	850-0045	2	Washer, Lock – Spring Spec A, B and begin Spec D (5/16)		191-2090	1	Spec E
7			Screw	21	191-1373	1	Screw, Cap – Hex Head Spec A, B and begin Spec D (7/16-14 x 4-1/4)
	814-1181	2	Spec A, B and begin Spec D (Flat Head Machine) (5/16-18 x 1-1/4)		800-2097	1	Spec C (M10 x 1-1/2 x 80)
	800-2063	1	Spec C – Hex Head Cap (M8 x 1-1/4 x 50)	22	870-2056	1	Nut, Hex (M10 x 1-1/2) (Spec C)
8	191-1375	1	Spacer, Alternator	23	191-2041	1	Bracket, Mounting (Spec C)
9	526-0032	1	Washer, Flat (7/16)	24	191-1981	1	Fan
10			Spacer, Bracket – Alternator	25	851-0039	1	Washer, Spring (Spec C)
	191-0571	1	Spec A-B	26	860-2008	1	Nut, Hex (M8) (Spec C)
	130-0988	1	Begin Spec C	27	860-2006	2	Nut, Hex (M5) (Spec C)
11	191-0716	1	Spacer, Sleeve	28	850-2005	2	Washer, Lock – Spring (M5) (Spec C)
12			Guard, Belt	29	850-2008	5	Washer, Lock – Spring (M8) (Spec C)
	191-1361-01	1	Spec A, B and begin Spec D				
	191-2055	1	Spec C				
13			Pulley, Alternator				
	191-1387	1	Spec A, B and begin Spec D				
	191-2032	1	Spec C				
14			Alternator 12 VDC				
	191-1873	1	Spec A-B (Includes Parts Marked *)				
	191-1983-01	1	Spec C				
	191-1872	1	Spec D-F (Includes Parts Marked *)				
	191-2188	1	Begin Spec G				

* – Parts included with Spec A, B, D Alternator.

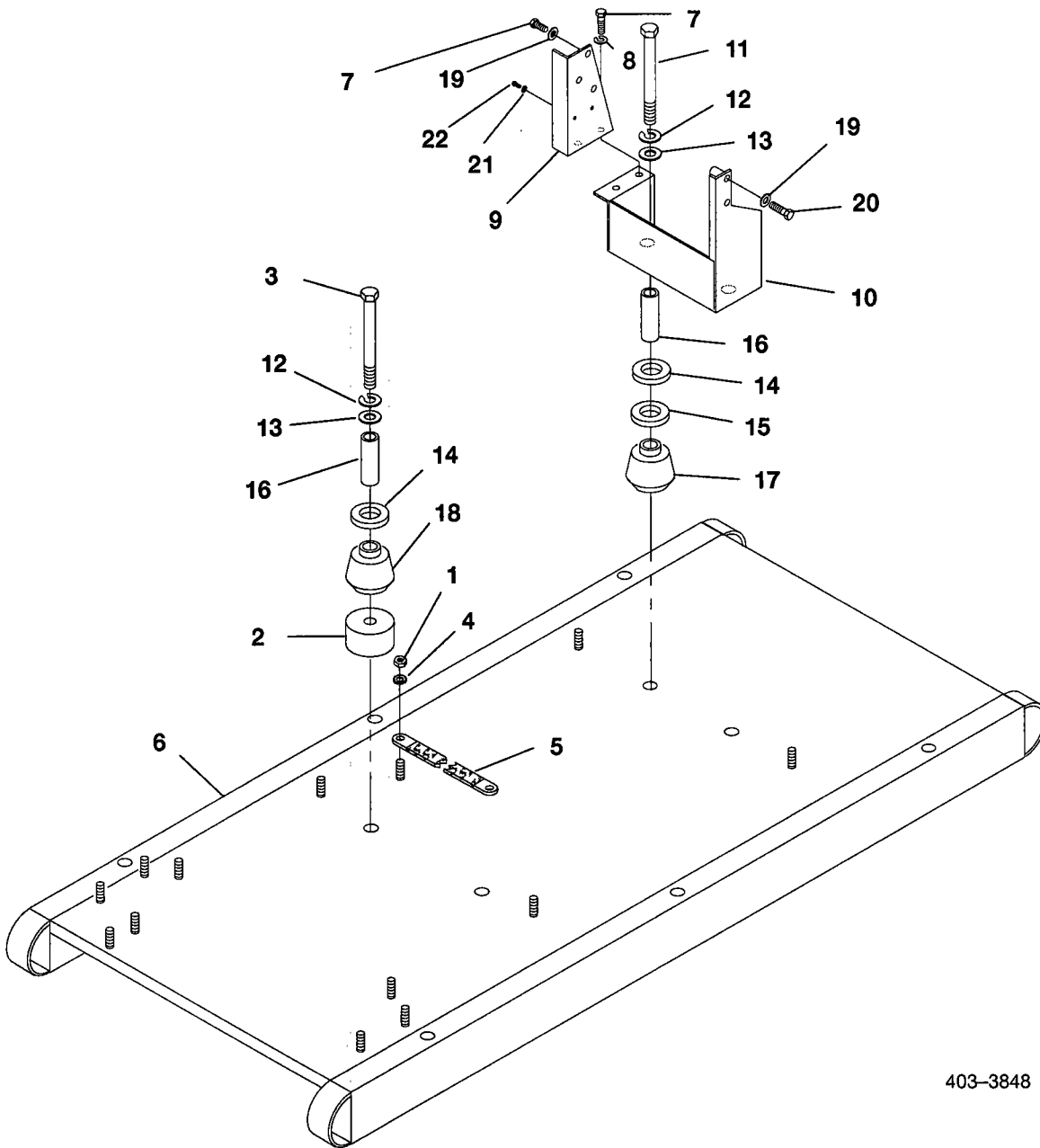
Skid **(Spec A-F)**



Skid (Spec A-F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-2093	1	Screw, Machine – Hex Head (M10 x 1-1/2 x 60MM)	21	357-0018	1	Diode (Includes leads and terminals)
2	800-2086	6	Screw, Machine – Hex Head (M10 x 1-1/2 x 25MM)	22	357-0026	1	Diode (Includes leads and terminals)
3	850-2010	7	Washer, Lock – Spring (M10)	23	307-1617	1	Relay, Solenoid – Start – 12 VDC (K1)
4	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1)	24	870-0251	2	Nut, Self-Locking – Hex Washer Head (5/16-18)
5	850-0050	2	Washer, Lock – Spring (3/8)	25	403-1796	1	Bracket, Mounting – Solenoid
6			Spec A-E	26	870-0257	1	Nut, Hex (5/16-18)
	862-0003	2	Nut, Hex (3/8-16)	27	850-0045	1	Washer, Lock – Spring (5/16)
	870-0281	2	Spec A-E	28	526-0022	1	Washer, Flat (21/64 ID x 9/16 OD x 1/16 THK)
7	403-1832	1	Spec F (Self-Locking)	29	332-1473	1	Lug, Terminal
8	800-0081	4	Bracket, Mounting – Engine	30			Washer, Lock – EIT (5/16)
9	526-0014	4	Screw, Cap – Hex Head (7/16-14 x 3-1/2)		856-0009	2	Spec A-E
10	402-0290	4	Washer, Flat (29/64 ID x 1-1/2 OD x 1/8 THK)		856-0009	1	Spec F
11	403-1830	2	Bushing, Sleeve	31			Strap, Ground
12	402-0282	4	Spacer		337-0090	1	Spec A-E
13			Snubber, Rubber		336-0476	1	Spec F
	402-0284	2	Mount, Vibration – Engine	32	800-0011	2	Screw, Cap – Hex Head (1/4-20 x 2)
	402-0285	2	Spec A-E	33	526-0015	2	Washer, Flat (9/32 ID x 9/16 OD x 1/16 THK)
14	402-0286	2	Spec F	34	416-0961	1	Holddown, Battery
15	850-0055	4	Mount, Vibration – Generator	35	403-1787	1	Skid
16	862-0004	4	Washer, Lock – Spring (7/16)	36	226-3462-04	1	Lead – Starter to Start Solenoid (12") Spec F (B1-Bat to K1-Bat)
17	403-1833	1	Nut, Hex (7/16-14)				Lead – Starter to Start Solenoid (12") Spec F (B1-Bat to K1-S2)
18			Bracket, Mounting – Engine	37	226-3462-05	1	
	800-0004	2	Screw, Cap – Hex Head				
	821-0010	2	Spec A-E (1/4-20 x 3/4)				
19	853-0013	4	Spec F (1/4-20 x 1/2)				
20			Washer, Lock – ET (1/4)				
	862-0001	2	Spec A-E				
	870-0212	2	Nut, Hex (1/4-20)				
			Spec A-E				
			Spec F				

Skid (Spec G)



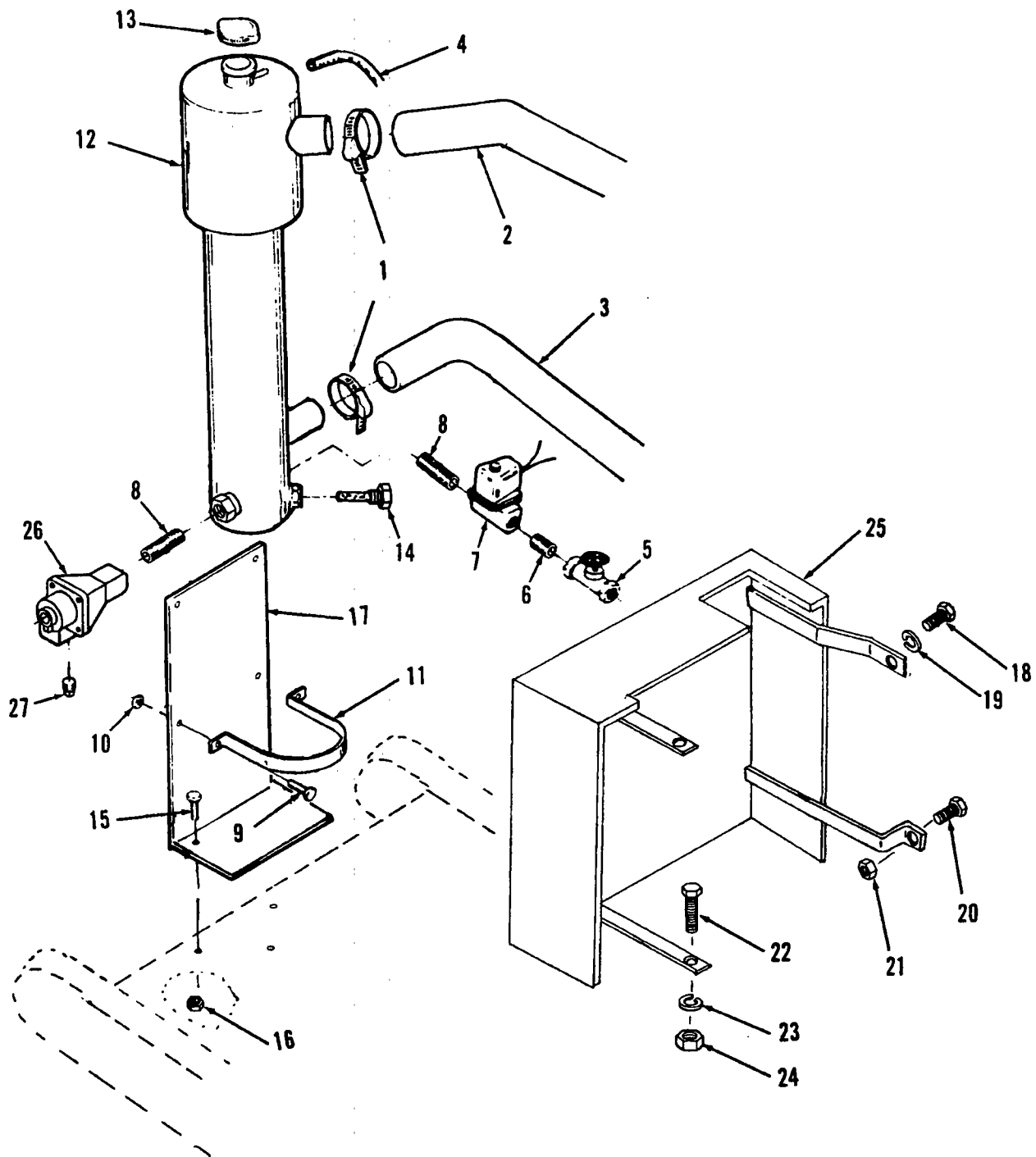
403-3848

**Skid
(Spec G)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0287	1	Nut, Standoff
2	405-5327	2	Support, Engine – Rear
3	800-0500	2	Screw, Cap – Hex Head
4	856-0009	1	Washer, Lock – EIT (5/16)
5	336-0476	1	Lead
6	403-1787	1	Skid
7	800-2086	4	Screw, Cap – Hex Head (M10 x 25)
8	850-2010	2	Washer, Lock
9	403-3834	1	Bracket, Mounting – Engine (RH)
10	403-3836	1	Bracket, Mounting – Engine (LH)
11	800-0081	2	Screw, Cap – Hex Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	850-0055	4	Washer, Lock
13	526-0014	4	Washer, Flat
14	402-0282	4	Cushion, Mounting – Rubber
15	403-1830	2	Spacer
16	402-0290	4	Bushing, Spacer
17	402-0285	2	Cushion, Mounting – Vibration Isolator
18	402-0286	2	Cushion, Mounting – Vibration Isolator
19	526-0174	4	Washer, Flat
20	800-2095	2	Screw, Cap – Hex Head
21	526-0122	2	Washer, Flat
22	800-2057	2	Screw, Cap – Hex Head (M8 x 20)

Heat Exchanger

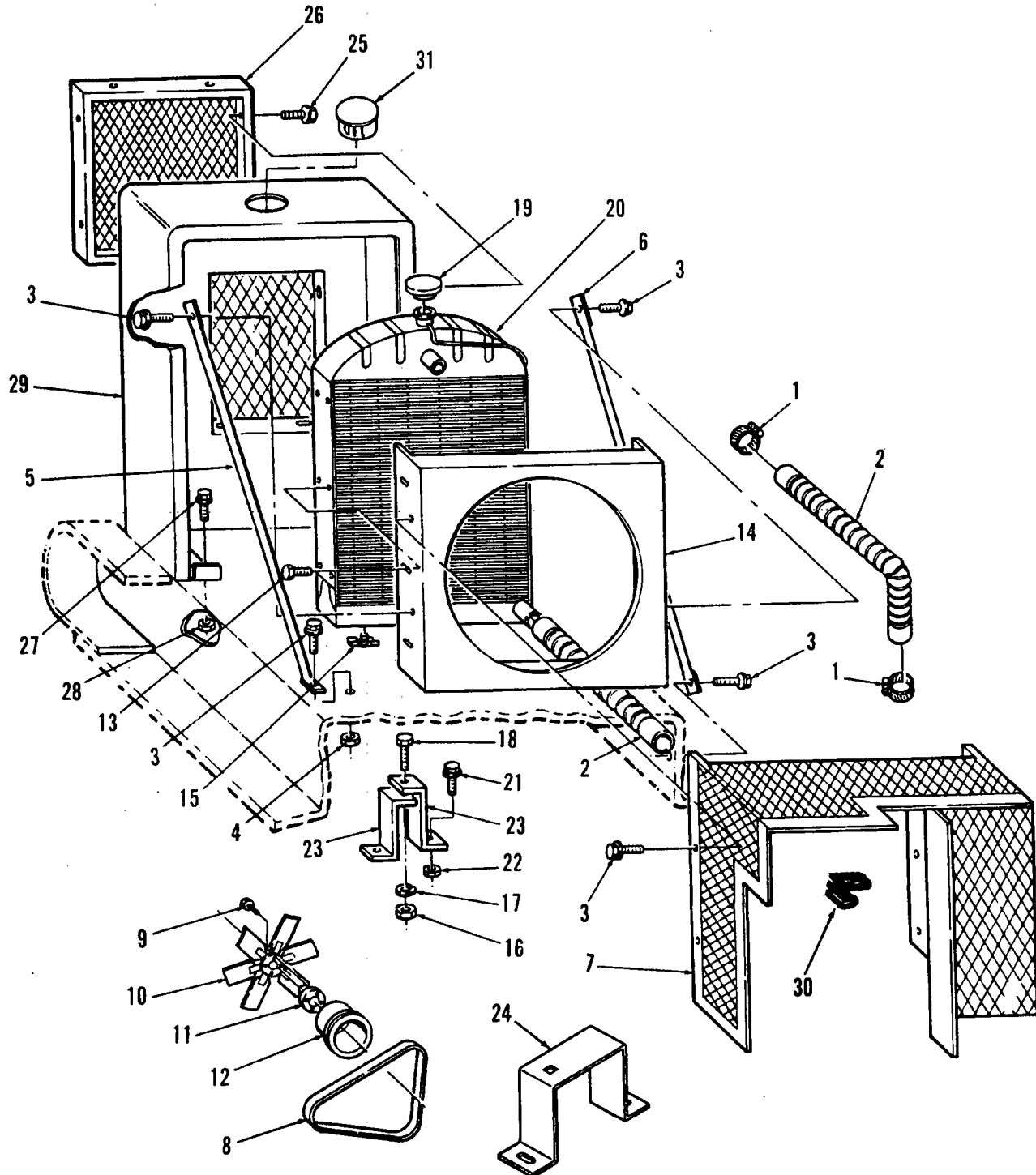


Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0429	4	Clamp, Hose 1-1/2"	16	870-0257	3	Nut, Self-Locking – Hex Washer Head (5/16-18)
	503-1137	1	2"	17	130-2559	1	Bracket, Mounting – Heat Exchanger
2	503-1058	1	Hose, Rubber – Upper	18	800-2084	1	Screw, Cap – Hex Head (M10 x 1-1/2 x 16MM)
3	503-0869	1	Hose, Rubber – Lower	19	850-2010	1	Washer, Lock – Spring (M10)
4	503-0492	1	Hose, Rubber	20	821-0018	3	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1)
5	504-0019	1	Valve, Globe (1/2 NPT)	21	870-0212	3	Nut, Self-Locking – Hex Washer Head (1/4-20)
6	505-0100	1	Nipple, Pipe – Close (1/2 NPT x 1-1/8)	22	800-0051	1	Screw, Cap – Hex Head (3/8-16 x 1-1/4)
7	307-0833	1	Valve, Solenoid – 12 VDC (1/2 NPT)	23	850-0050	1	Washer, Lock – Spring (3/8)
8	505-0002	2	Nipple, Pipe (1/2 NPT x 1-1/2)	24	862-0003	1	Nut, Hex (3/8-16)
9	821-0018	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1)	25	191-1576	1	Guard, Belt
10	870-0212	4	Nut, Self-Locking – Hex Washer Head (1/4-20)	26	309-0598	1	Valve, Saver – Water
11	130-2557	2	Band, Mounting	27	505-0013	1	Plug, Square Head
12	130-2556	1	Exchanger, Heat (Includes Parts Marked *)				
13	130-0661	1	*Cap, Heat Exchanger – 7PSI				
14	130-1341	1	*Pencil, Zinc (1/4 NPT)				
15	821-0016	3	Screw, Self-Locking – Hex Washer Head (5/16-18 x 5/8)				

* – Parts included with 130-2556 Heat Exchanger.

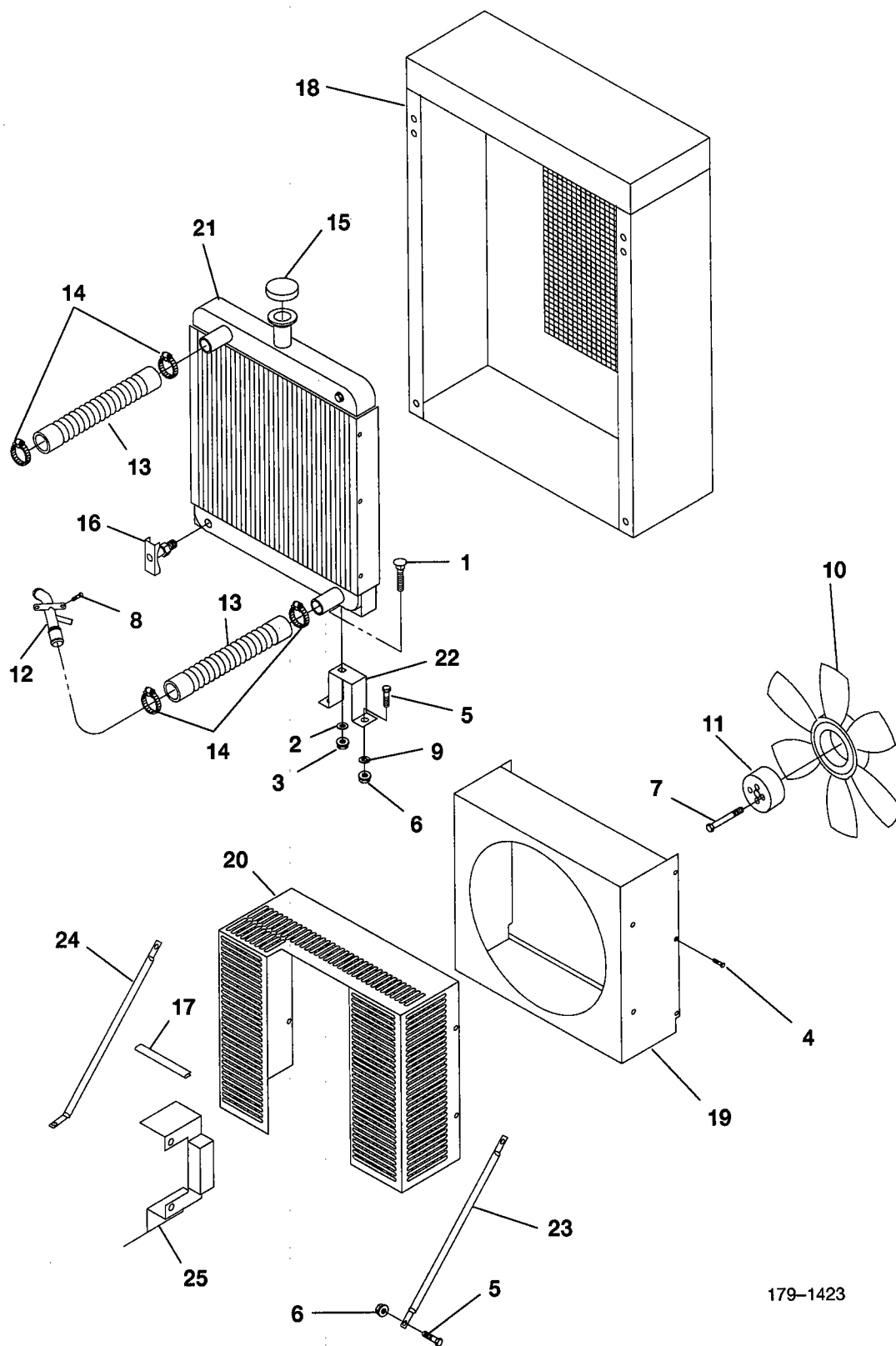
Radiator (Spec A-F)



Radiator (Spec A-F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0429	4	Clamp, Hose	14			Shroud, Fan
2			Hose, Radiator		130-1797	1	Used through October 1988
			Upper		130-3553	1	Used Beginning November 1988
	503-1058	1	Used through October 1988 (1-1/4 ID x 1-1/2 OD x 15-1/2)	15	504-0003	1	Cock, Drain (1/4 NPT)
				16	862-0003	2	Nut, Hex (3/8-16)
	503-1684	1	Use Began November 1988 (1-1/4 ID x 1-1/2 OD x 19-1/2)	17	850-0050	2	Washer, Lock - Spring (3/8)
				18	816-0152	2	Bolt, Carriage (3/8-16 x 2)
	503-0869	1	Lower (1-1/2 ID x 20)	19	130-1788	1	Cap, Radiator
3	821-0014	5	Screw, Self-Locking - Hex	20			Radiator
			Washer Head (5/16-18 x 1/2)		130-1551	1	Used through October 1988
					130-3552	1	Used Beginning November 1988
4	870-0257	1	Nut, Self-Locking - Hex	21	821-0014	4	Screw, Self-Locking - Hex
			Washer Head (5/16-18)				Washer Head (5/8-16 x 1-1/2)
5	130-1798	1	Brace	22	870-0257	4	Nut, Self-Locking - Hex
6	130-1793	1	Brace				Washer Head (5/8-16)
7	130-1805	1	Guard, Fan	23	130-1782	2	Brace, Radiator (Used Through 1981)
8	511-0112	1	Belt, Drive	24	130-1783	2	Brace, Radiator (Used Beginning 1982)
9			Screw, Cap - Hex Head	25	821-0007	8	Screw, Self-Locking - Hex
	800-2071	4	M8 x 1-1/4 x 80MM (Used through 1986)				Washer Head (1/4-20 x 1/4) - Used through 1981
	800-2072	4	M8 x 1-1/4 x 100MM (Used Beginning 1987)	26	130-2029	1	Guard, Radiator (Used through 1981)
10			Fan	27	821-0016	4	Screw, Self-Locking - Hex
	130-1806	1	Used through 1986				Washer Head (5/16-18 x 3/4)
	130-3079	1	Used Beginning 1987	28	870-0257	4	Nut, Self-Locking - Hex
11			Spacer				Washer Head (5/16-18)
	130-1792	1	Spec A	29	405-2941	1	Panel, Housing - Front (Used Through 1981)
	130-2253	1	Begin Spec B	30	508-0210	1	Edging
12			Pulley	31	517-0138-09	1	Plug, Hole
	512-0133	1	Spec A				
	512-0154	1	Begin Spec B				
13			Screw, Tapping - Hex Slotted Head				
	815-0181	6	#10-32 x 1/2 (Used through February 1989)				
	815-0194	6	#10-32 x 3/8 (Used beginning March 1989)				

Radiator (Spec G)

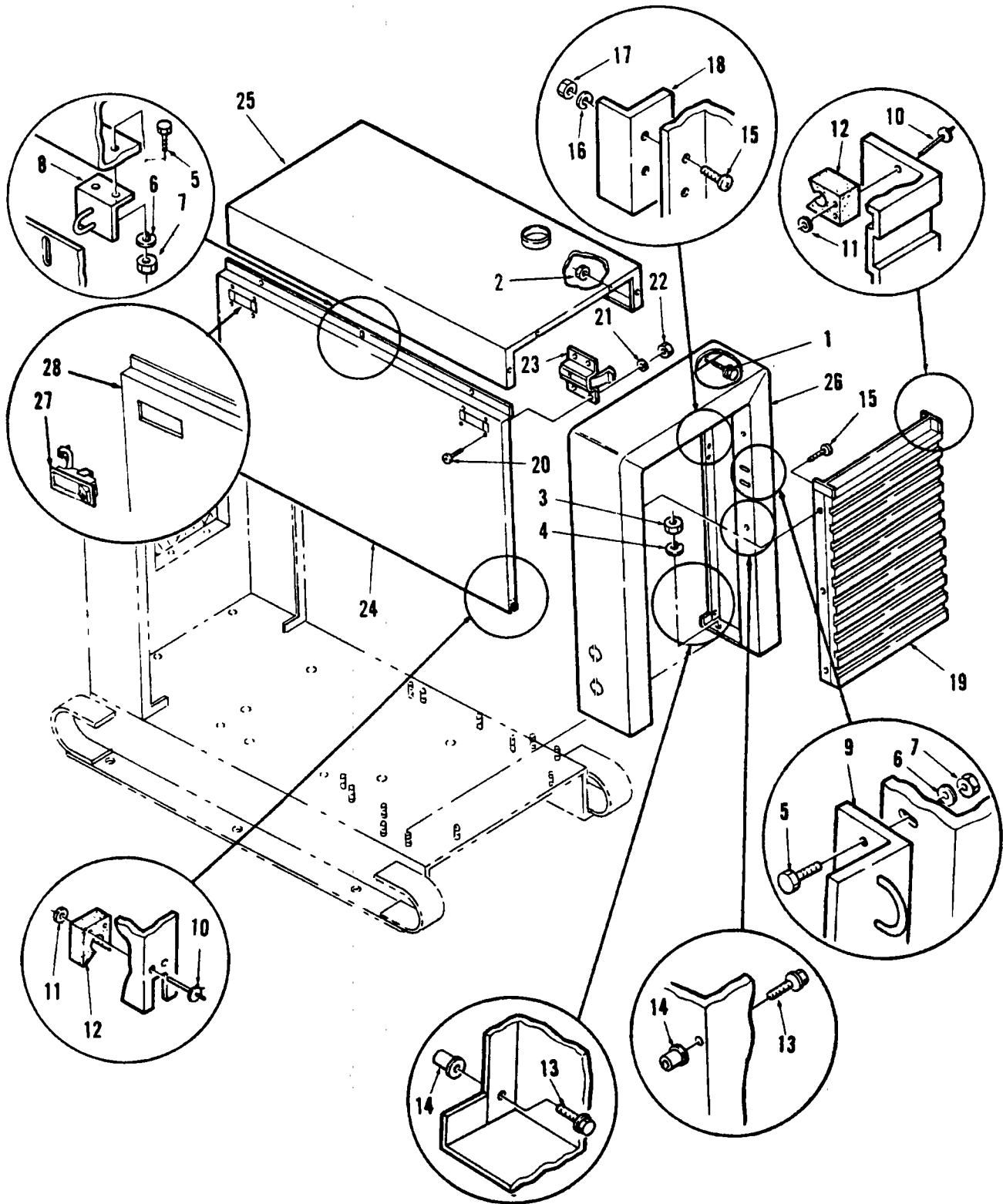


179-1423

Radiator (Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	816-0152	2	Bolt, Carriage	13	503-0869	2	Hose, Radiator
2	526-0141	2	Washer, Flat	14	503-0429	4	Clamp, Hose
3	870-0281	2	Nut, Self-Locking	15	130-1788	1	Cap, Radiator
4	815-0194	6	Screw, Thread Cutting - Hex Head	16	504-0003	1	Cock, Drain
5	821-5003-03	12	Screw, SEMS - Hex Head	17	508-0210	.5	Edging
6	870-0257	8	Nut, Self-Locking	18	405-5329	1	Housing, Front
7	800-2073	4	Screw, Cap - Hex Head (M8 x 110)	19	130-3553	1	Shroud, Fan
8	800-2034	2	Screw, Cap - Hex Head (M6 x 20)	20	130-4469	1	Guard, Belt
9	526-0174	1	Washer, Flat	21	130-3552	1	Radiator
10	130-3079	1	Fan	22	130-4448	2	Brace, Radiator
11	130-2253	1	Spacer, Fan	23	130-4446	1	Brace, Radiator
12	130-4415	1	Tube, Inlet	24	130-4447	1	Brace, Radiator
				25	191-2203	1	Guard, Belt - Alternator

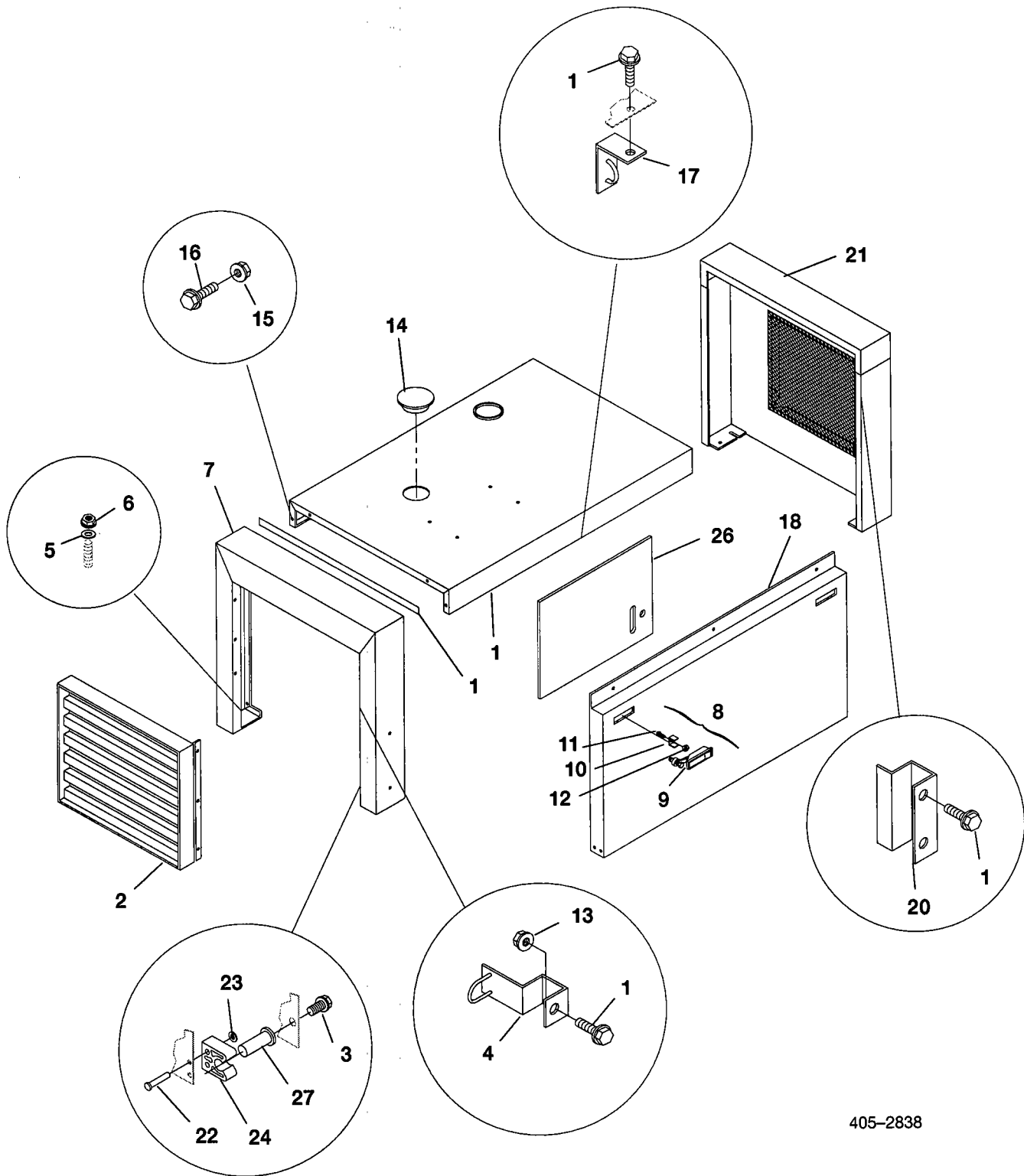
Housing (Spec A–F)



Housing (Spec A-F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0011	8	Screw, Self-Locking – Hex Washer Head (1/4–20 x 7/8)	18	406-0493	4	Catch, Door
2	870-0212	8	Nut, Self-Locking – Hex Washer Head (1/4–20)	19	405-2704	1	Cover, Control (Does NOT Include Latches and Door Clips.)
3	862-0015	4	Nut, Hex (5/16–18)	20	812-0148	16	Screw, Machine – Round Head (1/4–20 x 1/2) Through June 1984
4	850-0045	4	Washer, Lock – Spring (5/16)	21	850-0040	16	Washer, Lock – Spring (1/4) Through June 1984
5	800-0002	6	Screw, Cap – Hex Head (1/4–20 x 3/8)	22	862-0001	16	Nut, Hex (1/4–20) Through June 1984
6	850-0040	6	Washer, Lock – Spring (1/4)	23	406-0369	4	Latch, Door – Through June 1984
7	870-0212	6	Nut, Self-Locking – Hex Washer Head (1/4–20)	24	405-2804	2	Door, Housing – Through June 1984 (Does NOT Include Latches and Pivot Clips.)
8	406-0490	1	Latch, U-Bolt Type	25	405-2713	1	Panel, Housing – Top
9	406-0491	1	Latch, U-Bolt Type	26	405-2808	1	Panel, Housing – Rear
10	818-0150	12	Rivet, Pin Drive	27	406-0561	4	Latch, Door – Begin July 1984
11	526-0003	12	Washer, Flat (11/64 ID x 3/8 OD x 1/32 THK)	28	405-3362	2	Door, Housing – Begin July 1984 (Does NOT Include Latches and Pivot Clips.)
12	405-1872	6	Clip, Door – Plastic				
13	821-0009	6	Screw, Self-Locking – Hex Washer Head (1/4–20 x 3/8)				
14	870-0258	6	Nut, Weld (Door Pivot Pin)				
15	812-0098	11	Screw, Machine – Round Head (#10–24 x 3/8)				
16	850-0030	8	Washer, Lock – Spring (#10)				
17	862-0011	8	Nut, Hex (#10–24)				

Housing (Spec G)

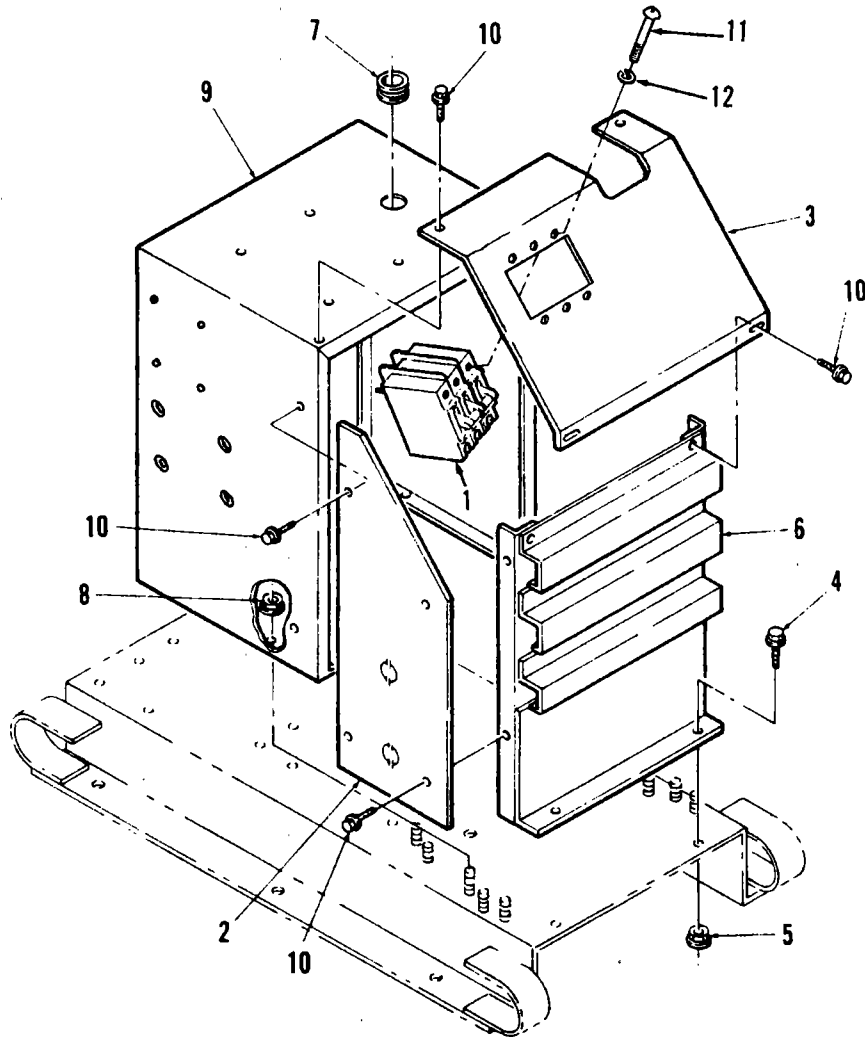


405-2838

Housing (Spec G)

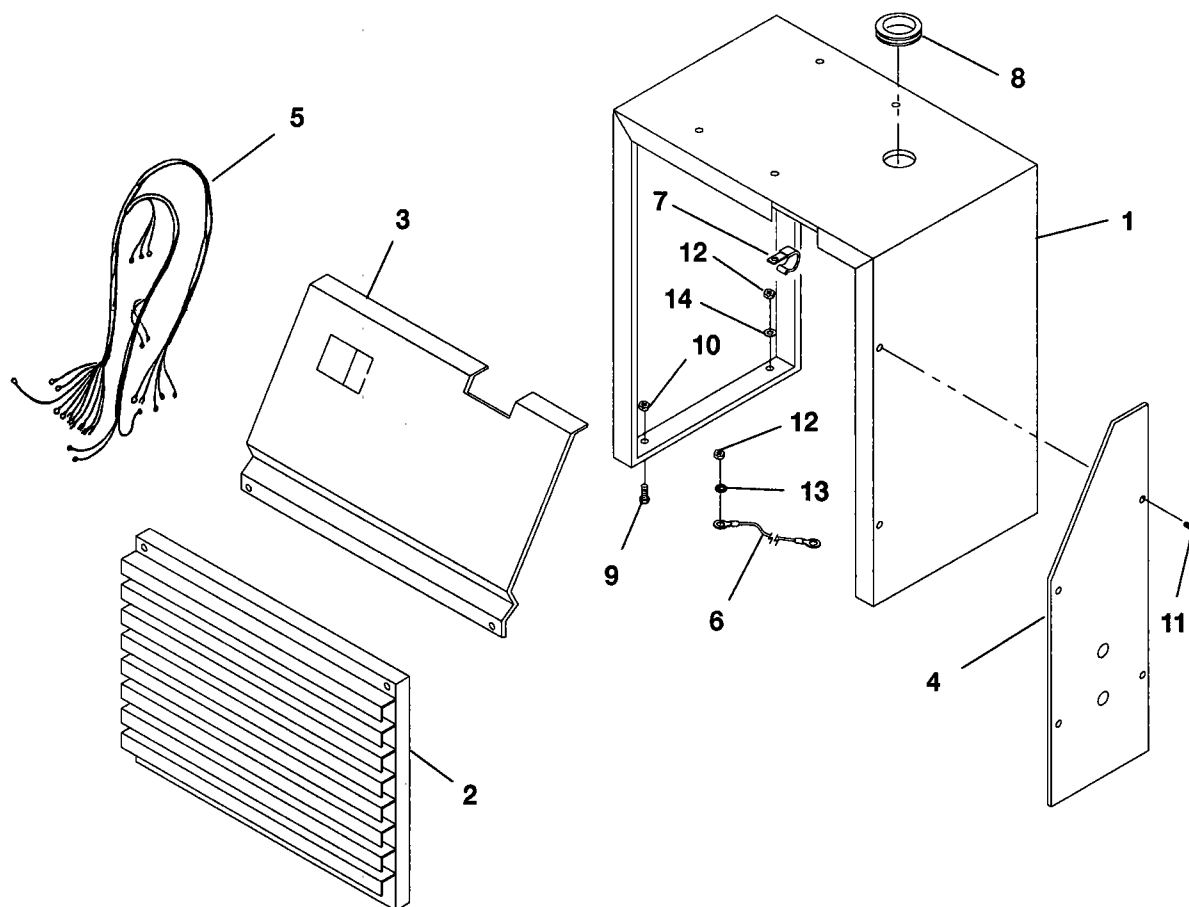
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	16	Screw, Self-Locking – Flange Head (#10-32 x 1/2)	13	870-0131	2	Nut, Hex – W/ET (#10-32)
2	405-2704	1	Cover, Control	14	517-0245	1	Plug
3	821-0010	6	Screw, Locking (1/4-20 x 1/2)	15	870-0212	10	Nut, Lock (1/4-20)
4	406-0491	1	Latch	16	821-0011	8	Screw, Lock (1/4-20 x 7/8)
5	526-0029	4	Washer, Flat (5/16)	17	406-0490	2	Latch
6	870-0257	4	Nut, Locking (5/16-18)	18	405-3362	2	Door, Engine
7	405-2808	1	Housing, Rear	19	405-2713	1	Panel, Top
8	406-0561	4	Latch Assembly, Door (Includes parts marked *)	20	406-0493	4	Catch, Door
9	406-0615	1	*Latch	21	405-2941	1	Housing, Front
10	406-0614	1	*Bracket	22	818-0150	12	Rivet, Drive
11	812-0084	1	*Screw, Machine – Round Head (#8-32 x 1)	23	526-0003	12	Washer, Flat
12	870-0221	1	*Nut, KEPS (#8-32)	24	405-1872	6	Clip, Door
				25	895-0195	26"	Tape, Pressure Sensitive
				26	128-0198	1	Insulation, Foam
				27	870-0258	6	Nut, Weld – Stud

Generator Housing (Spec A-F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit	2	405-2915	2	Plate, Housing - Side
			Two Pole, 240 Volt	3	405-2916	1	Panel, Housing - Top
	320-0630-01	1	70 Amp	4	821-0020	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 7/8)
	320-0632-01	1	100 Amp	5	870-0257	2	Nut, Self-Locking - Hex Washer Head (5/16-18)
			Three Pole	6	405-2913	1	Grille, Housing
			240 Volt	7	508-0144	1	Grommet
	320-0646	1	40 Amp	8	870-0257	4	Nut, Self-Locking - Hex Washer Head (5/16-18)
	320-0640-01	1	60 Amp	9	405-2912	1	Wrapper, Housing
	320-0647-01	1	70 Amp	10	821-0009	12	Screw, Self-Locking - Hex Washer Head (1/4-20 x 3/8)
	320-0641-01	1	75 Amp	11	812-0059	6	Screw, Machine - Round Head (#6-32 x 1/4)
	320-0700-01	1	80 Amp	12	850-0020	6	Washer, Lock - Spring (#6)
	320-0642-01	1	90 Amp				
	320-0701-01	1	100 Amp				
			480 Volt				
	320-0643-01	1	30 Amp				
	320-0638-01	1	40 Amp				
	320-0645-01	1	50 Amp				
			600 Volt				
	320-1397	1	25 Amp				
	320-1398	1	30 Amp				
	320-1851-11	1	60 Amp				

Generator Housing (Spec G)

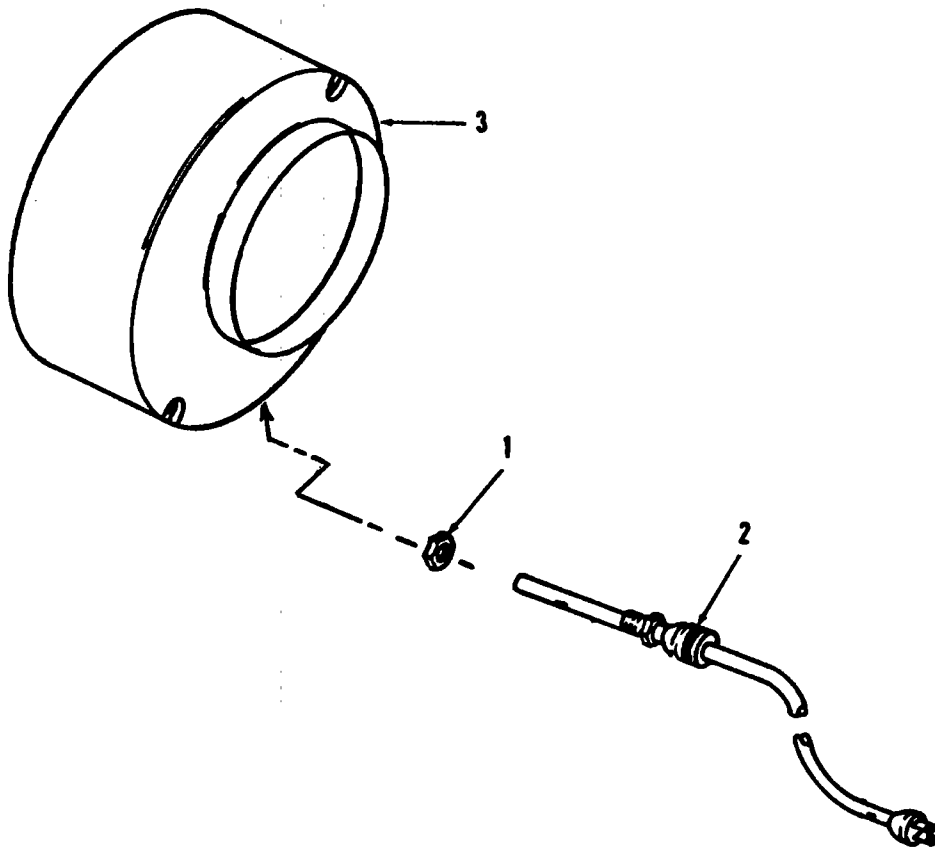


539-1672

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5331	1	Wrapper, Housing
2	405-2913	1	Grille, Housing
3	405-5332	1	Panel, Top
4	405-5330	2	Plate, Side
5	338-1731	1	Harness, Wiring – Generator (AC)
6	226-3317	1	Lead
7	332-1356	1	Clamp, Loop
8	508-0001	1	Grommet

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	821-5003-01	6	Screw, Hex Head – SEMS (5/16 –18 x 1/2)
10	870-0257	8	Nut, Whizlock (5/16–18)
11	821-5002-03	12	Screw, Hex Head – SEMS (1/4–20 x 1/2)
12	870-0212	1	Nut, Whizlock (1/4–20)
13	856-0006	1	Washer, Lock – EIT
14	526-0029	4	Washer, Flat (5/16)

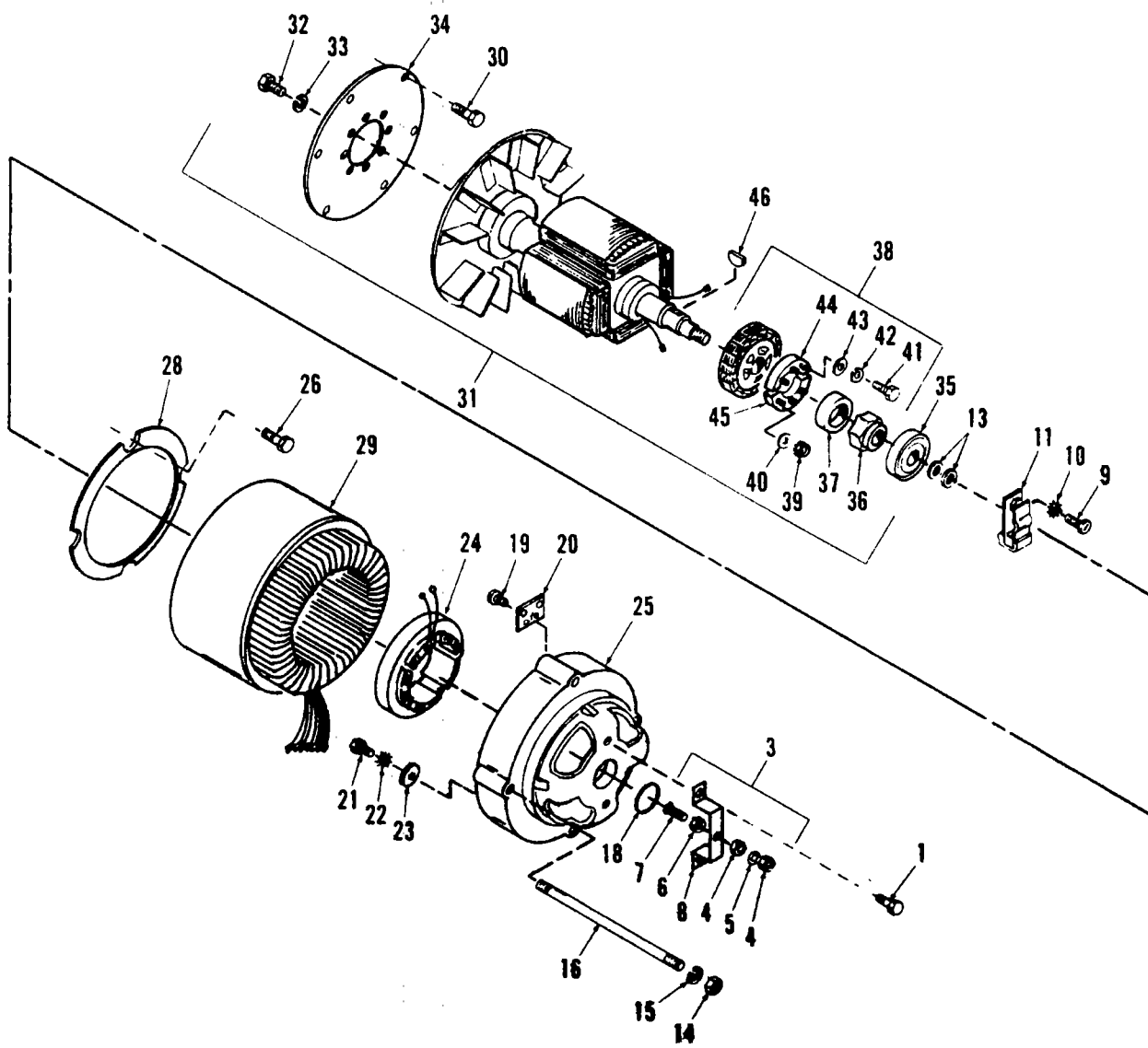
Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex – Special
2	333-0157	1	Heater, Electrical

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	234-0691	1	Cover, Bell – End

Generator

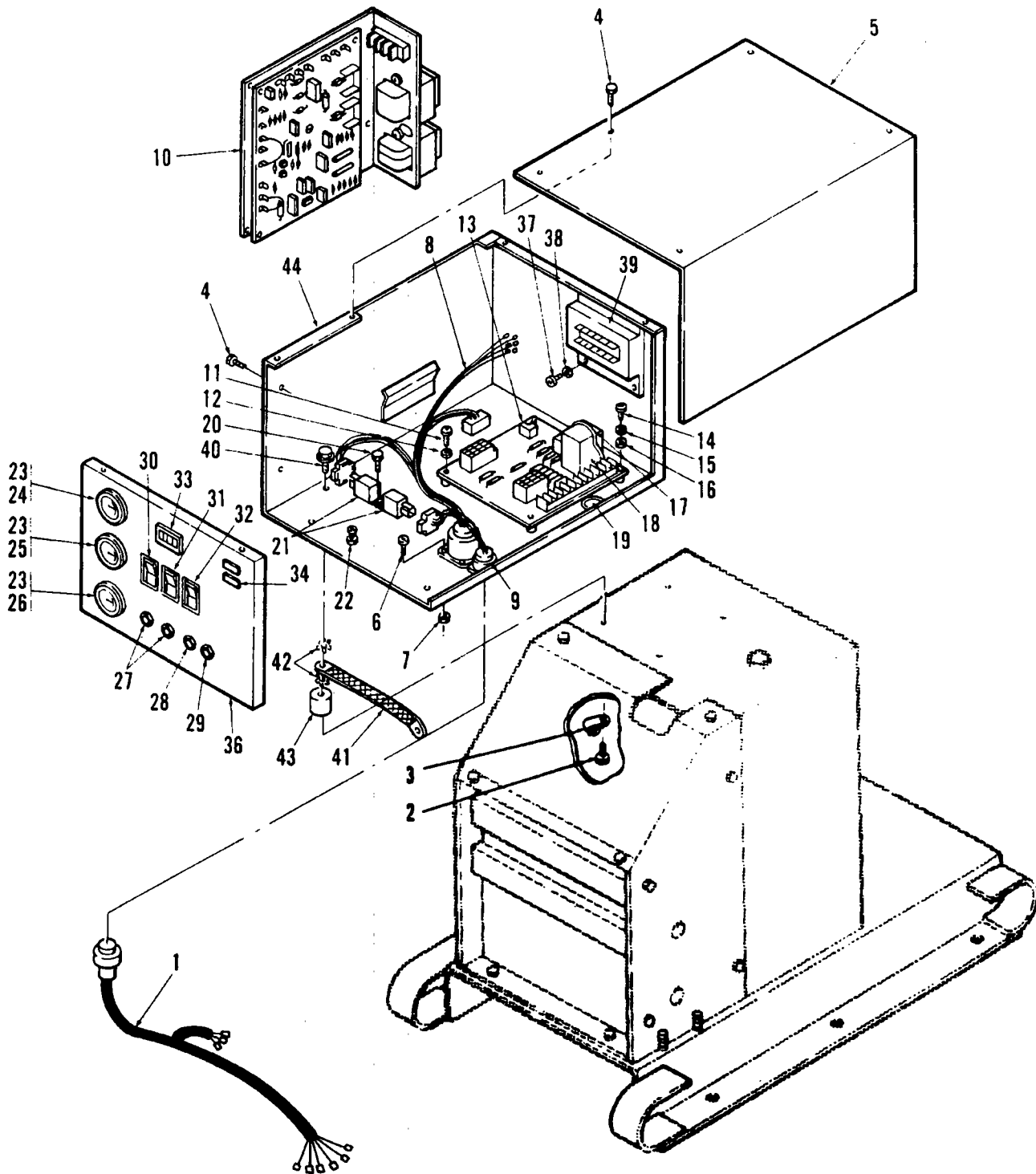


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2)	30	805-0015	6	Bolt, Hex Head – Slotted – Grade 8 (3/8–16 x 3/4)
3	150-1446	1	Point, Overspeed (Includes Parts Marked *)	31			Rotor, Generator (Includes Parts Marked +)
4	862-0001	2	*Nut, Hex (1/4–20)	201-2934	1		Standard (Voltage Codes 3, 53, 15, 515, 9XR)
5	853-0013	1	*Washer, Lock – ET (1/4)	201-3177	1		Standard Environmental Protected (Epoxy) (Voltage Codes 3, 53, 15, 515, 9XR)
6	870-0250	1	*Nut, Insulating (1/4)	201-2935	1		Extended Stack (Voltage Codes 15, 515)
7	150-0723	1	*Point, Contact	201-3178	1		Extended Stack Environmental Protected (Epoxy) (Voltage Codes 15, 515)
8	150-1445	1	*Bracket, Mounting				
9	800-0051	1	Screw, Cap – Hex Head (3/8–16 x 1–1/4)	32	805-0015	6	+ Bolt, Hex Head – Slotted Grade 8 (3/8–16 x 3/4)
10	856-0010	1	Washer, Lock – EIT (3/8)	33	526-0029	6	+ Washer, Flat (25/64 ID x 7/8 OD x 1/16 THK)
11	150-2563	1	Switch, Overspeed	34	232-2826	1	+ Disk, Drive
13	526-0077	2	Washer, Flat (3/8)	35	510-0112	1	+ Bearing, Ball
14	862-0011	4	Nut, Hex (3/8–16)	36	870-0284	1	+ Nut, Self-Locking – Hex (1–1/8–12)
15	850-0050	4	Washer, Lock – Spring (3/8)	37	232-2398	1	+ Spacer, Sleeve
16	520-0799	4	Stud (3/8–16 x 11–1/8)	38			+ Rotor, Exciter (Includes Parts Marked @)
18	509-0094	1	Seal, O-Ring				
19	815-0194	2	Screw, Tapping – Hex Head W/ET (#10–32 x 3/8)	201-2151	1		Standard
20	232-2418	1	Board, Terminal	201-2299	1		Environmental Protected (Epoxy)
21	800-0004	2	Screw, Cap – Hex head (1/4–20 x 5/8)	39	870-0131	6	@ Nut, Self-Locking – Hex W/ET (#10–32)
22	853-0013	2	Washer, Lock – ET (1/4)	40	526-0008	6	@ Washer, Flat (13/64 ID x 7/16 OD x 1/32 THK)
23	526-0260	2	Washer, Flat (9/32 ID x 101/4 OD x 9/64 THK)	41	813-0100	4	@ Screw, Machine – Round Head (#10–32 x 1/2)
24			Stator, Exciter	42	853-0008	4	@ Washer, Lock – ET (#10)
	220-2009	1	Standard	43	526-0008	4	@ Washer, Flat (13/64 ID x 7/16 OD x 1/32 THK)
	220-2308	1	Environmental Protected (Epoxy)	44	358-0069	1	@ Rectifier, Positive
25	211-0256	1	Bell, End – Generator	45	358-0070	1	@ Rectifier, Negative
26	821-0010	4	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2)	46	515-0094	1	+ Key, Woodruff
28	234-0519	1	Baffle, Air				
29			Stator, Generator				
	220-3691	1	Single Phase (Voltage Codes 3, 53)				
	220-3652	1	Single Phase Environmental Protected (Epoxy) (Voltage Codes 3, 53)				
	220-3685	1	Three Phase (Voltage Codes 15, 515)				
	220-3946	1	Three Phase Environmental Protected (Epoxy) (Voltage Codes 15, 515)				
	220-3686	1	Three Phase Extended Stack (Voltage Codes 15, 515)				
	220-3947	1	Three Phase Extended Stack Environmental Protected (Epoxy) (Voltage Codes 15, 515)				
	220-3687	1	Three Phase (Voltage Code 9XR Only)				

* – Parts included in 150-1446 Overspeed Point
+ – Parts included in Generator Rotor
@ – Parts included in Exciter Rotor

Set Control Single Fault Light (Spec A)

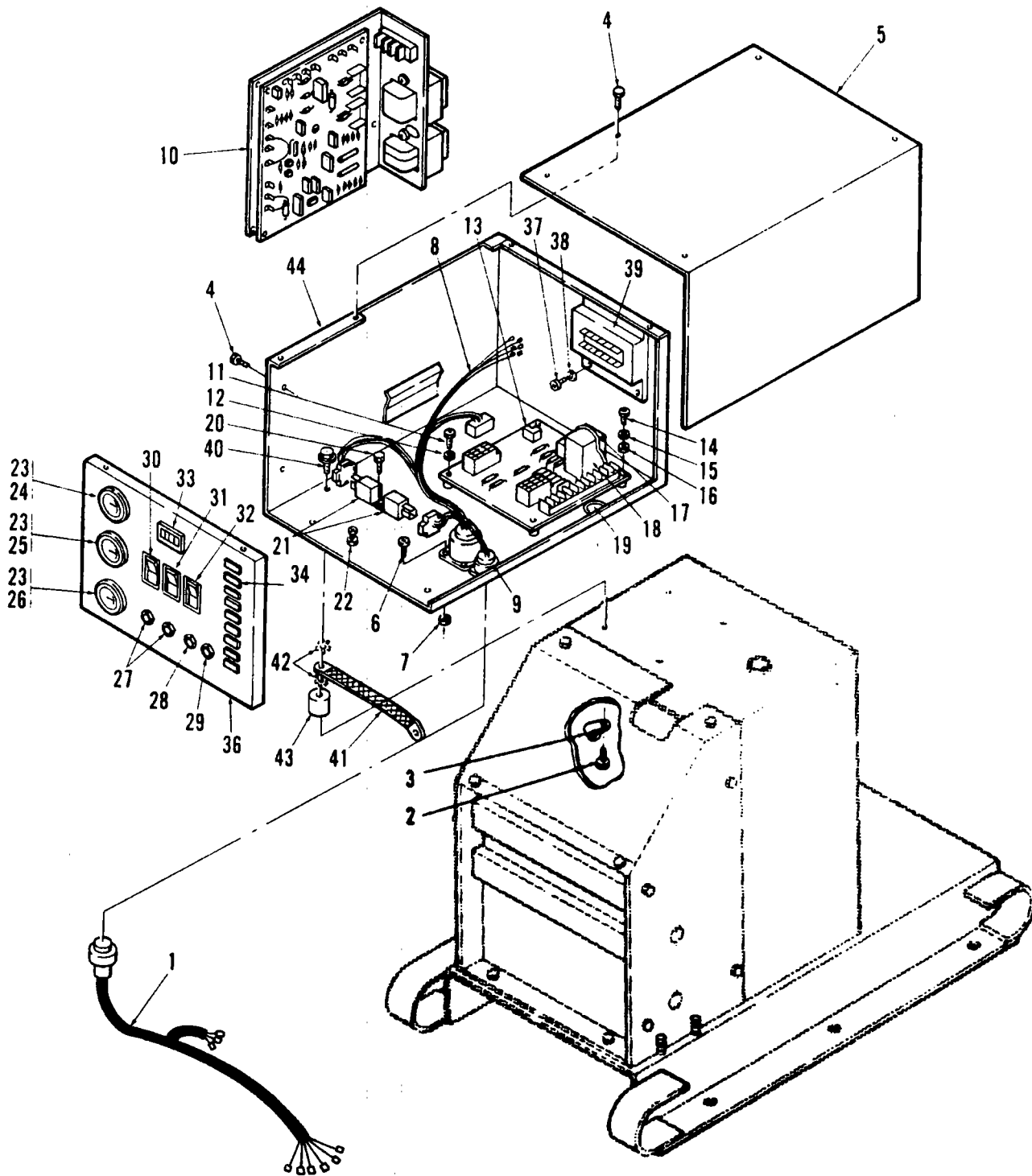


Set Control Single Fault Light (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1578	1	Harness, Wiring – Control to Generator	23	322-0308	3	Lamp, Incandescent (DS10, DS11, DS12)
2	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)	24	193-0319	1	Gauge, Temperature – Water (M3)
3	332-1356	1	Clamp, Loop	25	193-0320	1	Gauge, Pressure – Oil (M2)
4	821-0004	9	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)	26	302-1402	1	Ammeter – DC (M1)
5	301-5150	1	Cover, Control	27	320-0530	2	Breaker, Circuit – 5 Amp 120/250 VAC (CB1, CB2)
6	812-0063	8	Screw, Machine – Round Head (#6-32 x 1/2)	28	320-0540	1	Breaker, Circuit – 15 Amp 120/250 VAC (CB13)
7	870-0183	8	Nut, Hex W/ET (#6-32)	29	320-0505	1	Breaker, Circuit – 3 Amp 120/250 VAC (CB21)
8	338-1506	1	Harness, Wiring – Control – DC	30	308-0531	1	Switch, Push – SPDT (S10)
9	338-1459	1	Harness, Wiring – Control – AC	31			Switch, Push or Switch Blank
10			Regulator Assembly – Voltage (VRA21) (See separate page for Components)		301-6257	1	Blank
	305-0583	1	Standard		308-0624	1	SPDT – Used on Dual Fuel Systems (S11)
	305-0705	1	Switching	32	308-0532	1	Switch, Push – SPST (S12)
11	812-0061	4	Screw, Machine – Round Head (#6-32 x 3/8)	33	302-0885	1	Meter, Time Totalizing (M4)
12	850-0020	4	Washer, Lock – Spring (#6)	34			Light, Indicator – 14 VDC
13	300-2510	1	Monitor, Engine (A11) (Includes Parts Marked *)		322-0238	1	Green – Run (DS2)
14	812-0061	2	Screw, Machine – Round Head (#6-32 x 3/8)		322-0128	1	Red – Fault (DS1)
15	854-0006	2	Washer, Lock – IT (#6)	36	301-6582	1	Panel, Control
16	860-0006	2	Nut, Hex (#6-32)	37	815-0027	4	Screw, Machine – Truss Head (#10-32 x 1/2)
17	307-1157	1	*Spring, Holddown – Relay	38	856-0003	4	Washer, Lock – EIT (#10)
18	307-1687	1	*Relay (A11K1)	39	151-0565	1	Control Unit – Governor – 12 VDC (A12)
19	508-0144	1	Grommet	40	821-0014	4	Screw, Self Locking – Hex Washer Head (5/16-18 x 1/2)
20	821-0004	1	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)	41	337-0049	1	Strap, Ground
21	307-1886	2	Relay (K4, K11)	42	856-0008	2	Washer, Lock – EIT (5/16)
22			Terminal, Ground (Includes Parts Marked #)	43	402-0078	4	Dampener, Vibration
	815-0105	1	# Screw, Machine – Round Head – Brass (#10-32 x 1)	44	301-6230	1	Box, Control
	871-0010	2	# Nut, Hex – Brass (#10-32)				
	851-0001	1	# Washer, Lock – Spring – Brass (#10)				
	856-0003	2	# Washer, Lock – EIT (#10)				
	526-0062	2	# Washer, Flat – Brass (#10)				

* – Parts included in Engine Monitor Assembly
– Parts included in Ground Terminal Assembly

Set Control Multi Fault Light (Spec A)

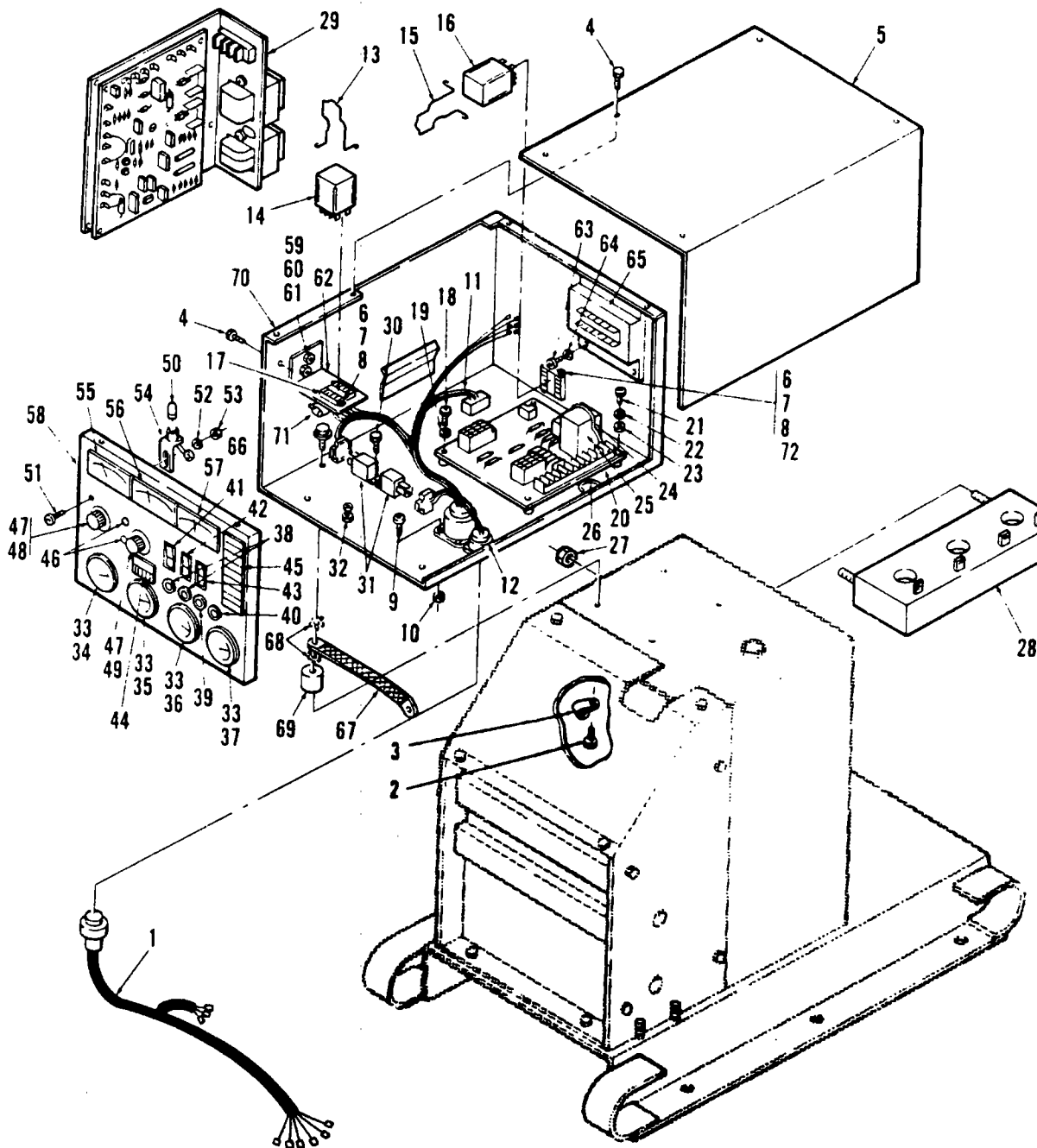


Set Control Multi Fault Light (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1578	1	Harness, Wiring – Control to Generator	25	193-0320	1	Gauge, Pressure – Oil (M2)
2	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)	26	302-1402	1	Ammeter – DC (M1)
3	332-1356	1	Clamp, Loop	27	320-0530	2	Breaker, Circuit – 5 Amp 120/250 VAC (CB1, CB2)
4	821-0004	9	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)	28	320-0540	1	Breaker, Circuit – 15 Amp 120/250 VAC (CB13)
5	301-5150	1	Cover, Control	29	320-0505	1	Breaker, Circuit – 3 Amp 120/250 VAC (CB21)
6	812-0063	8	Screw, Machine – Round Head (#6-32 x 1/2)	30	308-0531	1	Switch, Push – SPDT (S10)
7	870-0183	8	Nut, Hex W/ET (#6-32)	31	301-6257	1	Blank
8	338-1448	1	Harness, Wiring – Control – DC		308-0624	1	SPDT – Used on Dual Fuel Systems (S11)
9	338-1459	1	Harness, Wiring – Control – AC	32	308-0532	1	Switch, Push – SPST (S12)
10			Regulator Assembly – Voltage (VRA21) (See separate page for Components)	33	302-0885	1	Meter, Time Totalizing (M4)
	305-0583	1	Standard	34	322-0238	1	Light, Indicator – 14 VDC
	305-0705	1	Switching		322-0240	1	Green – Run (DS2)
11	812-0061	4	Screw, Machine – Round Head (#6-32 x 3/8)		322-0241	1	Amber – Pre Hi Eng Temp (DS3)
12	850-0020	4	Washer, Lock – Spring (#6)		322-0110	1	Amber – Pre Lo Oil Press (DS2)
13	300-2453-04	1	Monitor, Engine (A11) (Includes Parts Marked *)		322-0109	1	Red – Lo Eng Temp (DS6)
14	812-0061	2	Screw, Machine – Round Head (#6-32 x 3/8)		322-0111	1	Red – Hi Eng Temp (DS5)
15	854-0006	2	Washer, Lock – IT (#6)		322-0107	1	Red – Overspeed (DS7)
16	860-0006	2	Nut, Hex (#6-32)		322-0108	1	Red – Overcrank (DS8)
17	307-1157	1	*Spring, Holddown – Relay	36	301-5149	1	Red – Lo Oil Press (DS9)
18	307-1687	1	*Relay (A11K1)	37	815-0027	4	Panel, Control
19	508-0144	1	Grommet		856-0003	4	Screw, Machine – Truss Head (#10-32 x 1/2)
20	821-0004	1	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)	38	151-0565	1	Washer, Lock – EIT (#10)
21	307-1886	2	Relay (K4, K11)	39	821-0014	4	Control Unit – Governor – 12 VDC (A12)
22			Terminal, Ground (Includes Parts Marked #)	40			Screw, Self Locking – Hex Washer Head (5/16-18 x 1/2)
	815-0105	1	# Screw, Machine – Round Head – Brass (#10-32 x 1)	41	337-0049	1	Strap, Ground
	871-0010	2	# Nut, Hex – Brass (#10-32)	42	856-0008	2	Washer, Lock – EIT (5/16)
	851-0001	1	# Washer, Lock – Spring – Brass (#10)	43	402-0078	4	Dampener, Vibration
	856-0003	2	# Washer, Lock – EIT (#10)	44	301-6230	1	Box, Control
	526-0062	2	# Washer, Flat – Brass (#10)				
23	322-0308	3	Lamp, Incandescent (DS10, DS11, DS12)				
24	193-0319	1	Gauge, Temperature – Water (M3)				

* – Parts included in Engine Monitor Assembly
– Parts included in Ground Terminal Assembly

Set Control Multi Fault Light & AC Meters (Spec A)



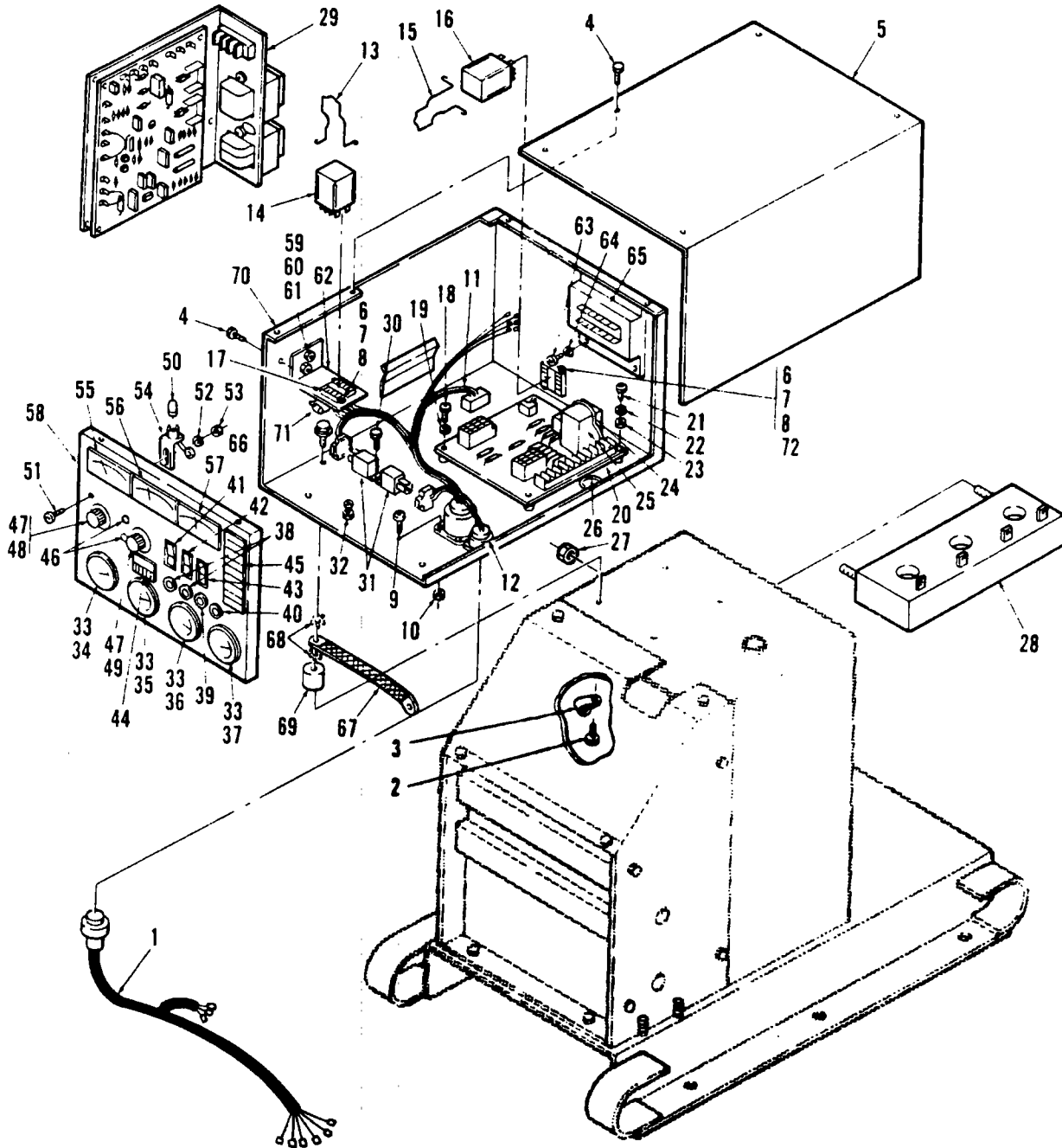
Set Control Multi Fault Light & AC Meters (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1578	1	Harness, Wiring – Control to Generator	32			Terminal, Ground (Includes Parts Marked @)
2	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)	815-0105	1	@	Screw, Machine – Round Head – Brass (#10-32 x 1)
3	332-1356	1	Clamp, Loop	871-0010	2	@	Nut, Hex – Brass (#10-32)
4	821-0004	9	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)	851-0001	1	@	Washer, Lock – Spring – Brass (#10)
5	301-5150	1	Cover, Control	856-0003	2	@	Washer, Lock – EIT (#10)
6	812-0077	8	Screw, Machine – Round Head (#8-32 x 3/8)	526-0062	2	@	Washer, Flat – Brass (#10)
7	856-0002	4	Washer, Lock – EIT (#8)	33 322-0308	3		Lamp, Incandescent (DS10, DS11, DS12)
8	860-0008	4	Nut, Hex (#8-32)	34 193-0319	1		Gauge, Temperature – Water (M3)
9	812-0063	8	Screw, Machine – Round Head (#6-32 x 1/2)	35 193-0320	1		Gauge, Pressure – Oil (M2)
10	870-0183	8	Nut, Hex W/ET (#6-32)	36 302-1402	1		Ammeter – DC (M1)
11	338-1577	1	Harness, Wiring – Control – DC	37			Gauge/Meter (M5)
12			Harness, Wiring – Control – AC (Includes Parts Marked *)	193-0330	1		Gauge, Temperature – Oil
	338-1460-01	1	Single Phase Sets	302-1411	1		Tachometer
	338-1460-02	1	Three Phase Sets	38 320-0530	2		Breaker, Circuit – 5 Amp 120/240 VAC (CB1, CB2)
13	307-1157	1	Spring, Holddown – Relay	39 320-0540	1		Breaker, Circuit – 15 Amp 120/250 VAC (CB13)
14	307-1061	1	Relay, Selection – Voltage (K21) (Used only on Three Phase Sets)	40 320-0505	1		Breaker, Circuit – 3 Amp 120/250 VAC (CB21)
15	307-1157	1	Spring, Holddown – Relay	41 308-0531	1		Switch, Push – SPDT (S10)
16	307-1058	1	Relay, Run (K12)	42			Switch, Push or Switch Blank
17	323-0765	1	*Socket, Relay (Less Terminals)	301-6257	1		Blank
	332-1280	6	Terminal (Relay Pin Sockets)	308-0624	1		SPDT – Used on Dual Fuel Systems
18	812-0061	4	Screw, Machine – Round Head (#6-32 x 3/8)	43 308-0532	1		Switch, Push – SPDT (S12)
19	850-0020	4	Washer, Lock – Spring (#6)	44 302-0885	1		Meter, Time Totalizing (M4)
20	300-2453-04	1	Monitor, Engine (A11) (Includes Parts Marked #)	45			Light, Indicator
21	812-0061	2	Screw, Machine – Round Head (#6-32 x 3/8)	322-0238	1		Green – Run (DS1)
22	854-0006	2	Washer, Lock – IT (#6)	322-0241	1		Amber – Pre Hi Eng Temp (DS3)
23	860-0006	2	Nut, Hex (#6-32)	322-0241	1		Amber – Pre Lo Oil Press (DS2)
24	307-1157	1	#Spring, Holddown – Relay	322-0110	1		Red – Lo Eng Temp (DS6)
25	307-1687	1	#Relay (A11K1)	322-0109	1		Red – Hi Eng Temp (DS5)
26	508-0144	1	Grommet	322-0111	1		Red – Overspeed (DS7)
27	870-0257	2	Nut, Self-Locking – Hex Washer Head (5/16-18)	322-0107	1		Red – Overcrank (DS8)
28			Transformer, Current	322-0108	1		Red – Lo Oil Press (DS9)
	302-1416	1	Single Phase Sets – Code 3	46 322-0211	2		Light, Indicator – 3W 125 VAC (DS21, DS22)
	302-1417	1	Three Phase Sets – Code 15	47 303-0032	2		Knob
	302-1755	1	Code 9XR	48 308-0284	1		Switch, Selector (S21)
29			Regulator, Voltage (VRA21) (See Separate Page for Components)	49 303-0170	1		Rheostat (R23)
	305-0583	1	Standard	50 322-0203	2		Lamp, Incandescent
	305-0705	1	Switching				
30	821-0004	1	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)				
31	307-1886	2	Relay (K4, K11)				

* – Parts included in AC Control Wiring Harness
– Parts included in Engine Monitor
@ – Parts included in Ground Terminal

Continued...

**Set Control
Multi Fault Light & AC Meters
(Spec A)
(Continued)**

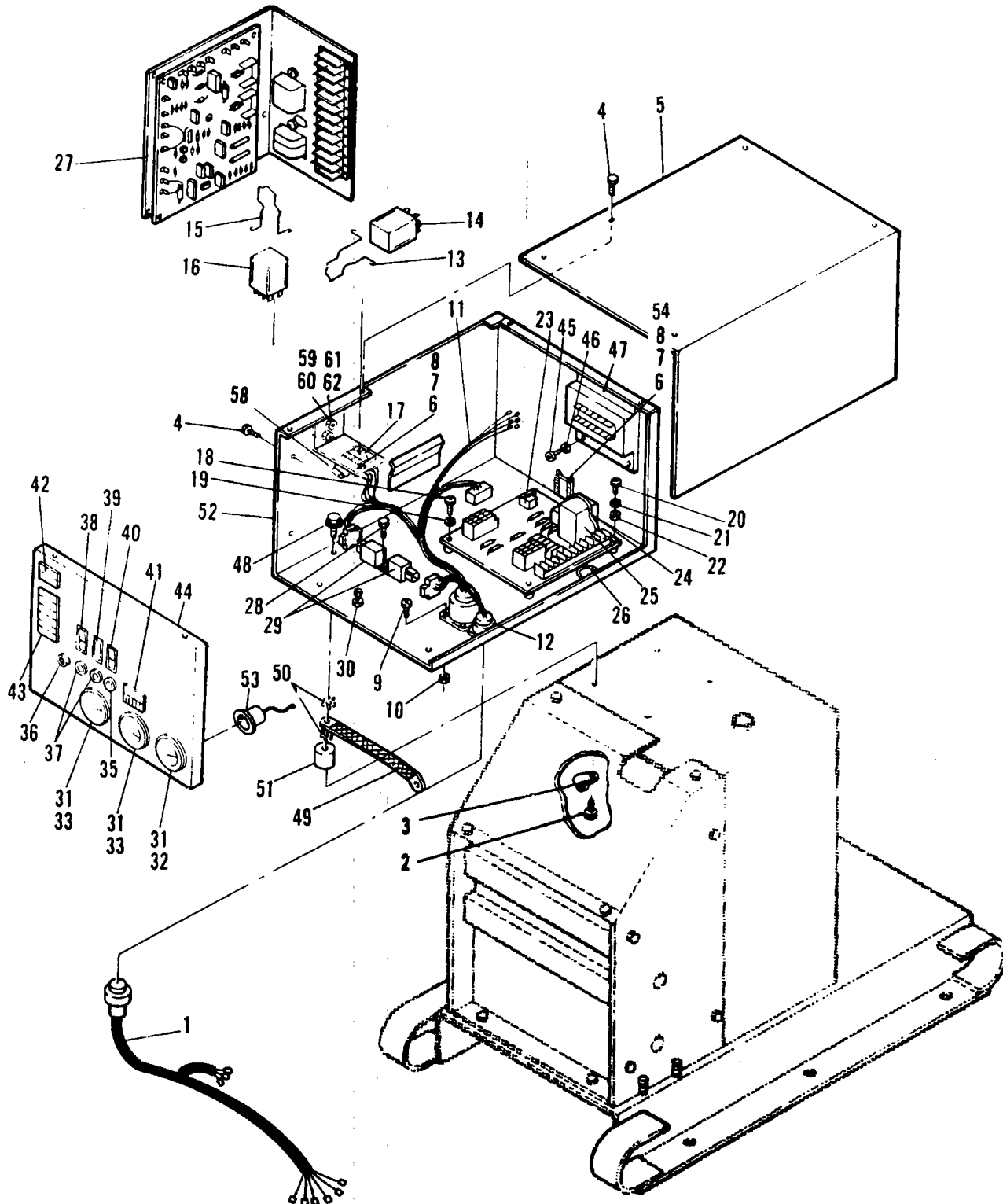


**Set Control
Multi Fault Light & AC Meters
(Spec A)
(Continued)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
51	812-0029	2	Screw, Machine – Round Head (#4-40 x 3/8)	62	301-3244	1	Bracket, Mounting – Relay (Used on Three Phase Sets Only)
52	853-0001	4	Washer, Lock – ET (#4)	63	815-0027	4	Screw, Machine – Truss Head (#10-32 x 1/2)
53	860-0003	2	Nut, Hex (#4-40)	64	856-0003	4	Washer, Lock – EIT (#10)
54	322-0213	2	Lampholder	65	151-0565	1	Control Unit, Governor – 12 VDC (A12)
55			Ammeter, AC (M23)	66	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)
	302-1176	1	Single Phase Sets – Code 3	67	337-0049	1	Strap, Ground
	302-1147	1	Three Phase Sets – Code 15	68	856-0008	2	Washer, Lock – EIT (5/16)
	302-1754	1	Code 9XR	69	402-0078	4	Dampener, Vibration
56			Voltmeter, AC (M22)	70	301-6230	1	Box, Control
	302-1148	1	Code 3, 15	71	350-0556	1	*Resistor (R22)
	302-1753	1	Code 9XR	72	332-0804	1	Socket, Relay
57			Meter, Frequency (M21)				
	302-1153	1	60 Hertz				
	302-1273	1	50 Hertz				
58			Panel, Control				
	301-6852-01	1	With Three Round Gauge Holes				
	301-6852-02	1	With Four Round Gauge Holes				
59	812-0077	2	Screw, Machine – Round Head (#8-32 x 3/8)				
60	856-0002	2	Washer, Lock – EIT (#8)				
61	860-0008	2	Nut, Hex (#8-32)				

* – Parts included in AC Control Wiring Harness
– Parts included in Engine Monitor
@ – Parts included in Ground Terminal

**Set Control
Single Fault Light
(Begin Spec B)**



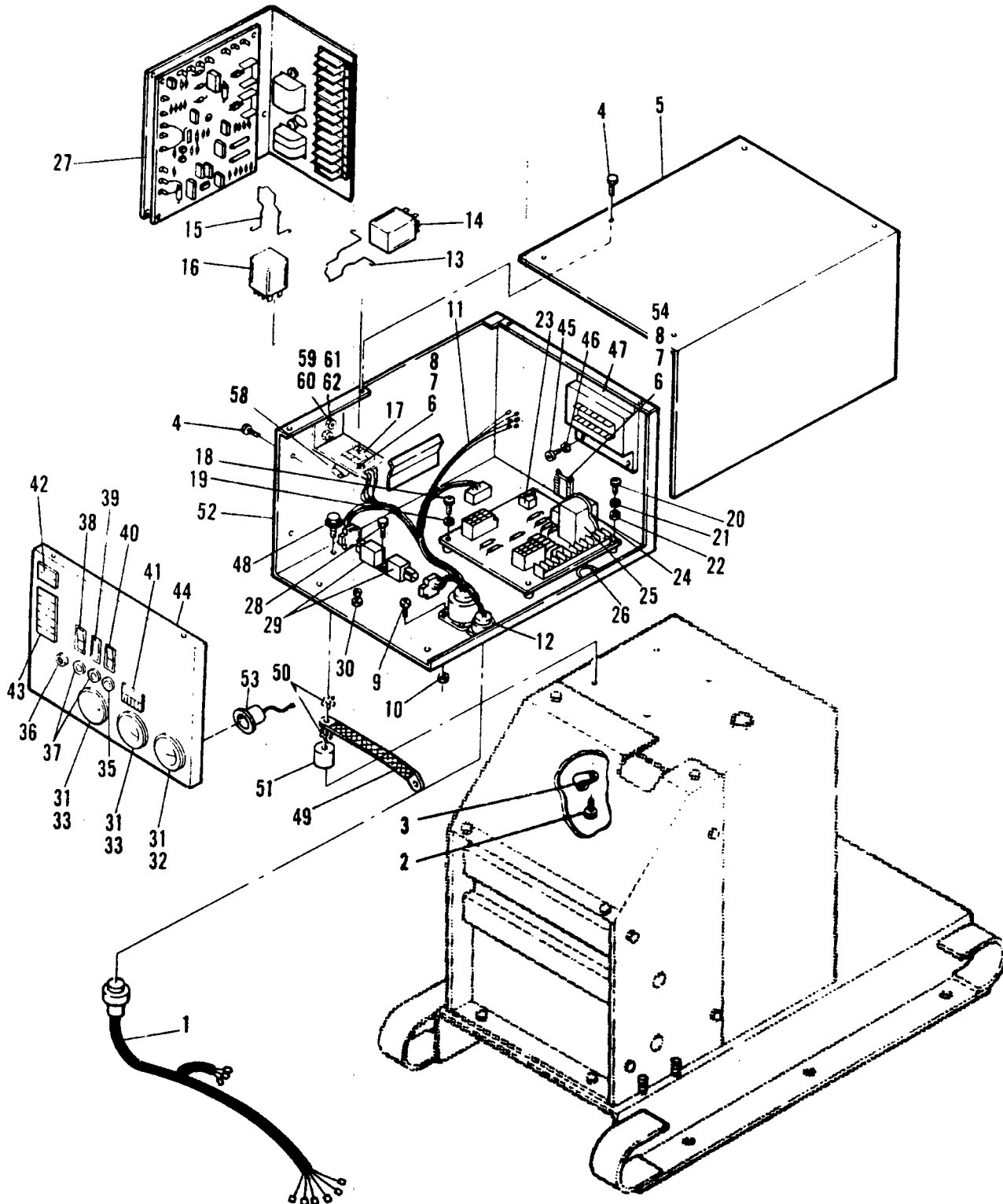
Set Control Single Fault Light (Begin Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1731	1	Harness, Wiring – Control to Generator	26	508-0144	1	Grommet
2	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)	27			Regulator, Voltage (VRA21) (See Separate Page for Components)
3	332-1356	1	Clamp, Loop		305-0704	1	Standard
4	821-0004	9	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)		305-0705	1	Switching
5	301-5150	1	Cover, Control	28	821-0004	1	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)
6	812-0077	4	Screw, Machine – Round Head (#8-32 x 3/8)	29	307-1886	2	Relay (K4, K5)
7	856-0002	2	Washer, Lock – EIT (#8)	30			Terminal, Ground (Includes Parts Marked #)
8	860-0008	4	Nut, Hex (#8-32)		815-0105	1	# Screw, Machine – Round Head (#10-32 x 1)
9	812-0063	8	Screw, Machine – Round Head (#6-32 x 1/2)		871-0010	2	# Nut, Hex – Brass (#10-32)
10	870-0183	8	Nut, Hex W/ET (#6-32)		851-0001	1	# Washer, Lock – Spring – Brass (#10)
11			Harness, Wiring – Control – DC		856-0003	2	# Washer, Lock – EIT (#10)
	338-1643-01	1	Meters		526-0062	2	# Washer, Flat – Brass (#10)
	338-2676-01	1	Meters (Spec C)				Lamp, Incandescent (DS10, DS11, DS12)
	338-2777-02	1	Meters (Spec E)	31	322-0308	3	
	338-1644	1	Switches				Gauge, Temperature – Water (M3)
	338-1646	1	Lights	32	193-0319	1	Gauge, Pressure – Oil (M2)
12			Harness, Wiring – Control – AC (Includes Parts Marked @)	33	193-0320	1	Ammeter, DC (M1)
	338-1642-02	1	Single Phase Sets	34	302-1402	1	Breaker, Circuit – 3 Amp 120/250 VAC (CB3)
	338-1642-03	1	Three Phase Sets	35	320-0505	1	Breaker, Circuit – 15 Amp 120/250 VAC (CB13)
	338-1642-04	1	Code 9XR Sets Only	36	320-0540	1	Breaker, Circuit – 7 Amp 120/250 VAC (CB1, CB2)
13	307-1157	1	Spring, Holddown – Relay	37	320-1920	2	Switch, Push – SPDT (S10)
14	307-1143	1	Relay, Start (K11)				Switch, Push or Blank Switch
15	307-1157	1	Spring, Holddown – Relay	38	308-0531	1	Blank
16	307-1058	1	Relay, Run (K12)	39			SPDT – Used on Dual Fuel Systems (S11)
17	323-0765	1	@ Socket, Relay (Less Terminals)		301-6257	1	
	332-1280	6	Terminal (Relay Pin Sockets)		308-0624	1	
18	812-0061	4	Screw, Machine – Round Head (#6-32 x 3/8)				
19	850-0020	4	Washer, Lock – Spring (#6)				
20	812-0061	2	Screw, Machine – Round Head (#6-32 x 3/8)				
21	854-0006	2	Washer, Lock – IT (#6)				
22	860-0006	2	Nut, Hex (#6-32)				
23	300-2510	1	Monitor, Engine (A11) (Includes Parts Marked *)				
24	307-1157	1	* Spring, Holddown – Relay				
25	307-1687	1	* Relay (A11K1)				

* – Parts Included in Engine Monitor
– Parts Included in Ground Terminal
@ – Parts Included in AC Control Wiring Harness

Continued...

**Set Control
Single Fault Light
(Begin Spec B)
(Continued)**

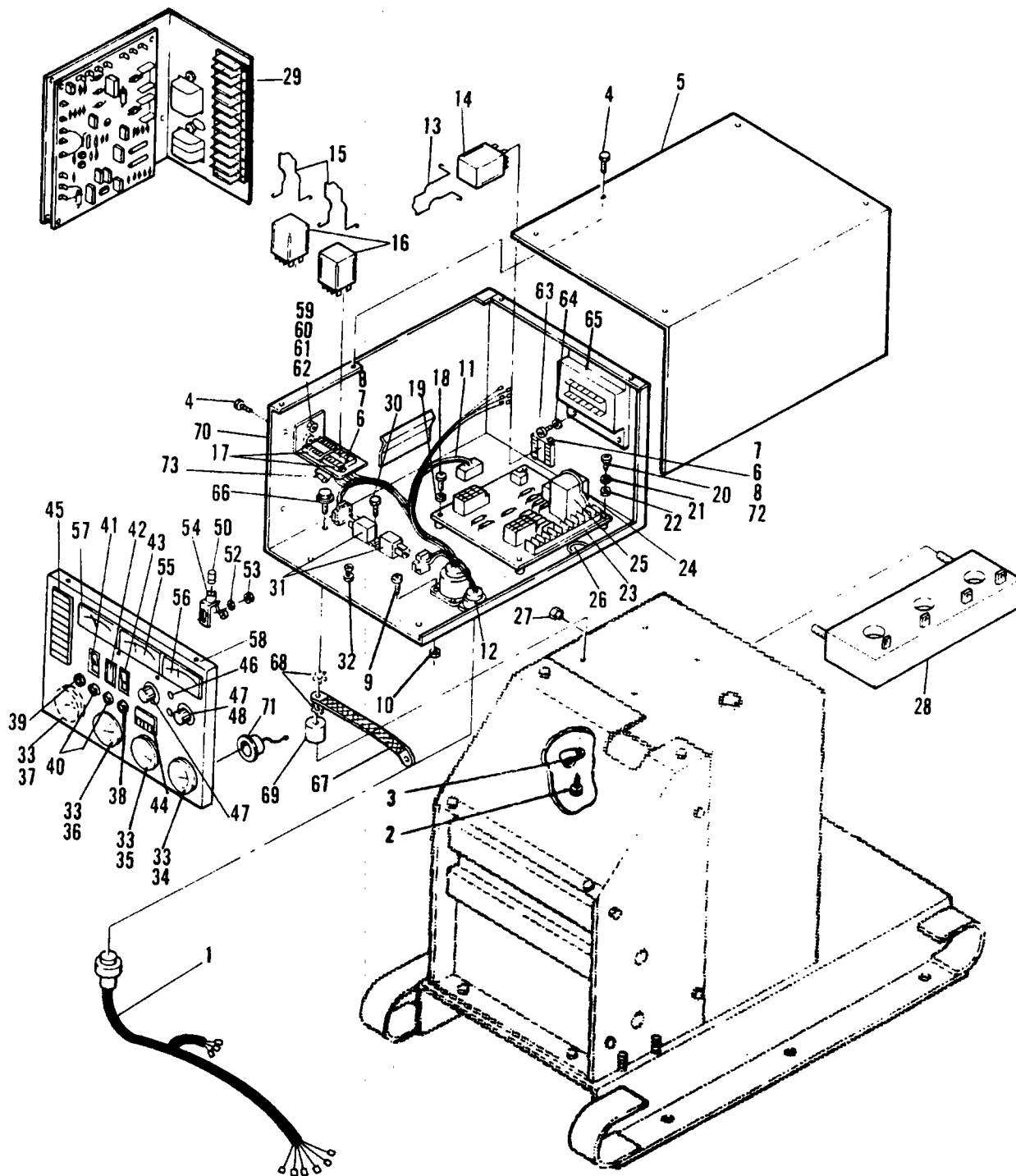


**Set Control
Single Fault Light
(Begin Spec B)
(Continued)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
40	308-0532	1	Switch, Push - SPST (S12)	52	301-6230	1	Box, Control
41	302-0885	1	Meter, Time Totalizing (M4)	53	322-0210	3	Lampholder
42			Light, Indicator - 14 VDC	54	323-0804	1	Socket, Relay
	322-0238	1	Green - Run (DS2)	58	350-0556	1	@ Resistor (R22)
	322-0128	1	Red - Fault (DS1)	59	812-0077	2	Screw, Machine - Round Head (#8-32 x 3/8)
43	322-0141	7	Lens with Bezel	60	856-0002	2	Washer, Lock - EIT (#8)
44	301-7348-01	1	Panel, Control	61	860-0008	2	Nut, Hex (#8-32)
45	815-0027	4	Screw, Machine - Truss Head (#10-32 x 1/2)	62			Bracket, Mounting - Relay
46	856-0003	4	Washer, Lock - EIT (#10)		301-7334	1	Three Phase Sets
47	151-0565	1	Control Unit, Governor - 12 VDC (A12)		301-3244	1	Single Phase Sets
48	821-0014	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2)				
49	337-0049	1	Strap, Ground				
50	856-0008	2	Washer, Lock - EIT (5/16)				
51	402-0078	4	Dampener, Vibration				

* - Parts Included in Engine Monitor
- Parts Included in Ground Terminal
@ - Parts Included in AC Control Wiring Harness

**Set Control
Multi Fault Light & AC Meters
(Begin Spec B)**



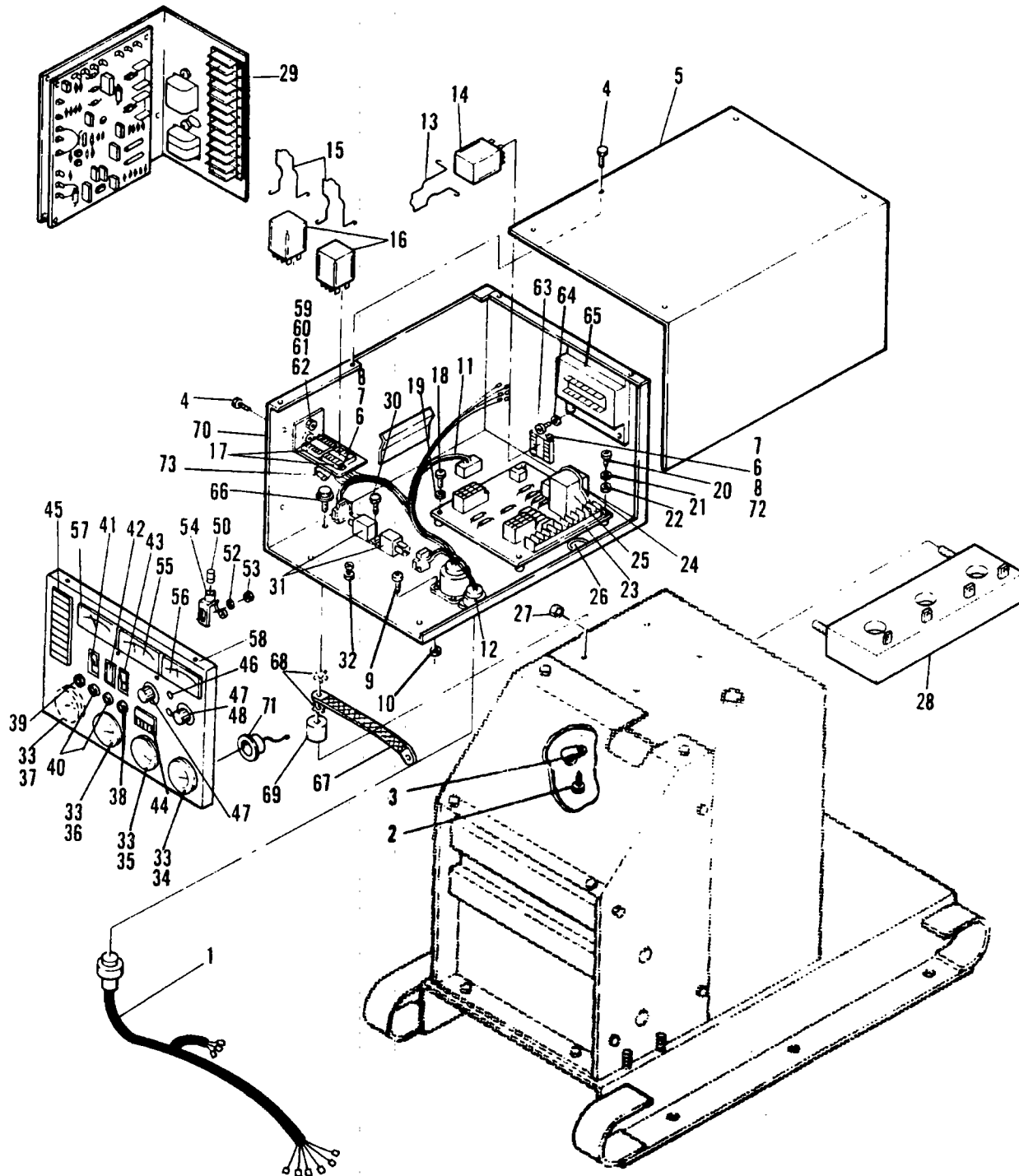
Set Control Multi Fault Light & AC Meters (Begin Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1731	1	Harness, Wiring – Control to Generator	30	821-0004	1	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)
2	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)	31	307-1886	2	*Relay (K4, K5)
3	332-1356	1	Clamp, Loop	32			Terminal, Ground (Includes Parts Marked #)
4	821-0004	9	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16)		815-0105	1	# Screw, Machine – Round Head (#10-32 x 1)
5	301-5150	1	Cover, Control		871-0010	2	# Nut, Hex – Brass (#10-32)
6	812-0077	4	Screw, Machine – Round Head (#8-32 x 3/8)		851-0001	1	# Washer, Lock – Spring – Brass (#10)
7	856-0002	2	Washer, Lock – EIT (#8)		856-0003	2	# Washer, Lock – EIT (#10)
8	860-0008	4	Nut, Hex (#8-32)		526-0062	2	# Washer, Flat – Brass (#10)
9	812-0063	8	Screw, Machine – Round Head (#6-32 x 1/2)	33	322-0308	3	Lamp, Incandescent (DS10, DS11, DS12, DS13)
10	870-0183	8	Nut, Hex W/ET (#6-32)	34	193-0319	1	Gauge, Temperature – Water (M3)
11			Harness, Wiring – Control – DC Meters	35	193-0320	1	Gauge, Pressure – Oil (M2)
	338-1643-01	1	Meters (Spec C)	36	302-1402	1	Ammeter, DC (M1)
	338-2676-01	1	Meters (Spec E)	37			Gauge/Meter
	338-2777-02	1	Switches		193-0330	1	Gauge, Temperature – Oil
	338-1644	1	Lights		302-1409	1	Tachometer
12	338-1645	1	Harness, Wiring – Control – AC (Includes Parts Marked @)	38	320-0505	1	Breaker, Circuit – 3 Amp 120/250 VAC (CB3)
	338-1642-02	1	Single Phase Sets	39	320-0540	1	Breaker, Circuit – 15 Amp 120/250 VAC (CB13)
	338-1642-01	1	Three Phase Sets	40	320-1920	2	Breaker, Circuit – 7 Amp 120/250 VAC (CB1, CB2)
13	307-1157	1	Spring, Holddown – Relay	41	308-0620	1	Switch, Push – SPDT (S10)
14	307-1058	1	Relay, Run (K12)	42			Switch, Push or Blank Switch
15	307-1157	1	Spring, Holddown – Relay		301-6257	1	Blank
16	307-1143	1	Start Disconnect (K11)		308-0624	1	SPDT – Used on Dual Fuel Systems (S11)
	307-1061	1	Voltage Selection (K12)	43	308-0532	1	Switch, Push – SPST (S12)
15	307-1157	1	Spring, Holddown – Relay	44	302-0885	1	Meter, Time Totalizing (M4)
16	307-1058	1	Relay, Run (K12)	45			Light, Indicator – 14 VDC
17	323-0765	1	@ Socket, Relay (Less Terminals)		322-0238	1	Green – Run (DS2)
	332-1280	6	Terminal (Relay Pin Sockets)		322-0240	1	Amber – Pre Hi Eng Temp (DS3)
18	812-0061	4	Screw, Machine – Round Head (#6-32 x 3/8)		322-0241	1	Amber – Pre Lo Oil Press (DS2)
19	850-0020	4	Washer, Lock – Spring (#6)		322-0110	1	Red – Lo Eng Temp (DS6)
20	812-0061	2	Screw, Machine – Round Head (#6-32 x 3/8)		322-0109	1	Red – Hi Eng Temp (DS5)
21	854-0006	2	Washer, Lock – IT (#6)		322-0111	1	Red – Overspeed (DS7)
22	860-0006	2	Nut, Hex (#6-32)		322-0107	1	Red – Overcrank (DS8)
23	300-2453-04	1	Monitor, Engine (A11)		322-0108	1	Red – Lo Oil Press (DS9)
24	307-1157	1	*Spring, Holddown – Relay	46	322-0211	2	Light, Indicator – 3W 125 VAC (DS21, DS22)
25	307-1687	1	*Relay (A11K1)	47	303-0032	2	Knob
26	508-0144	1	Grommet	48	308-0284	1	Switch, Selector (S21)
27	870-0257	2	Nut, Self-Locking – Hex Washer Head (5/16-18)	49	303-0170	1	Rheostat (R23)
28			Transformer, Current	50	322-0203	2	Lamp, Incandescent
	302-1416	1	Single Phase Sets – Code 3				
	302-1417	1	Three Phase Sets – Code 15				
	302-1755	1	Code 9XR				
29			Regulator, Voltage (VRA21) (See Separate Page for Components)				
	305-0704	1	Standard				
	305-0705	1	Switching				

* – Parts Included in Engine Monitor
– Parts Included in Ground Terminal
@ – Parts Included in AC Control Wiring Harness

Continued...

**Set Control
Multi Fault Light & AC Meters
(Begin Spec B)
(Continued)**

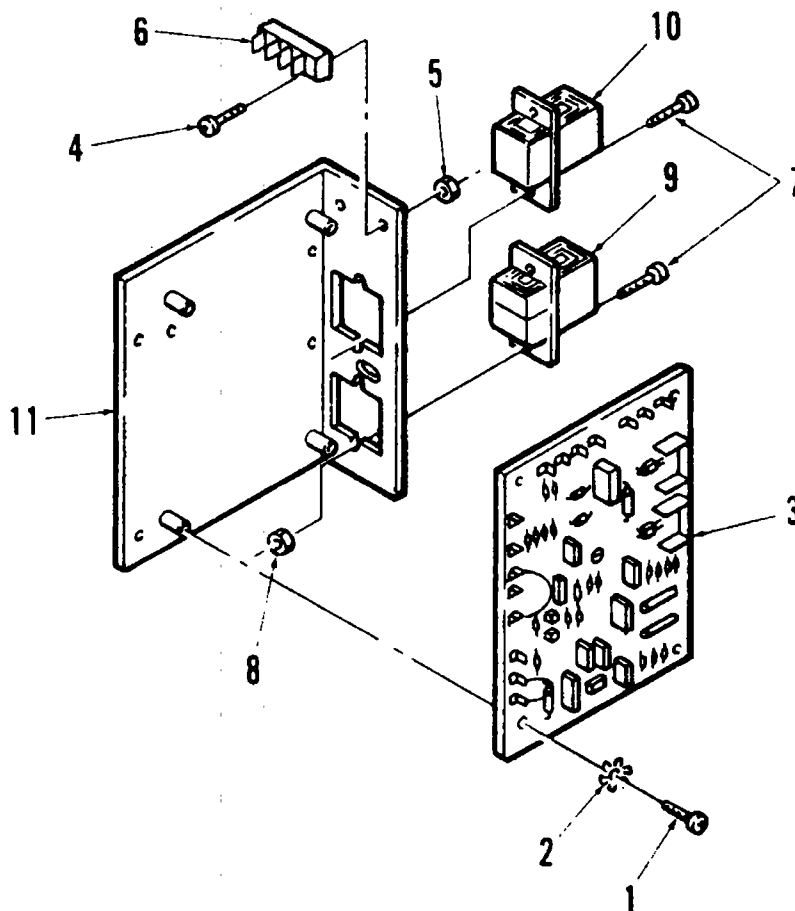


**Set Control
Multi Fault Light & AC Meters
(Begin Spec B)
(Continued)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
51	812-0029	2	Screw, Machine – Round Head (#4-40 x 3/8)	62			Bracket, Mounting – Relay Three Phase Sets
52	853-0001	4	Washer, Lock – ET (#4)		301-7334	1	Single Phase Sets
53	860-0003	2	Nut, Hex (#4-40)	63	815-0027	4	Screw, Machine – Truss Head (#10-32 x 1/2)
54	322-0213	2	Lampholder	64	856-0003	4	Washer, Lock – EIT (#10)
55			Ammeter, AC	65	151-0565	1	Control Unit, Governor – 12 VDC (A12)
	302-1176	1	Single Phase Sets – Code 3	66	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2)
	302-1147	1	Three Phase Sets – Code 15	67	337-0049	1	Strap, Ground
	302-1754	1	Code 9XR	68	856-0008	2	Washer, Lock – EIT (5/16)
56			Voltmeter, AC (M22)	69	402-0078	4	Dampener, Vibration
	302-1148	1	Code 3, 15	70	301-6230	1	Box, Control
	302-1753	1	Code 9XR	71	322-0210	4	Lampholder
57			Meter, Frequency (M21)	72	323-0804	1	Socket, Relay
	302-1153	1	60 Hertz	73	350-0556	1	@ Resistor (R22)
	302-1273	1	50 Hertz				
58			Panel, Control				
	301-7349-01	1	With Three Round Gauge Holes				
	301-7349-02	1	With Four Round Gauge Holes				
59	812-0077	2	Screw, Machine – Round Head (#8-32 x 3/8)				
60	856-0002	2	Washer, Lock – EIT (#8)				
61	860-0008	2	Nut, Hex (#8-32)				

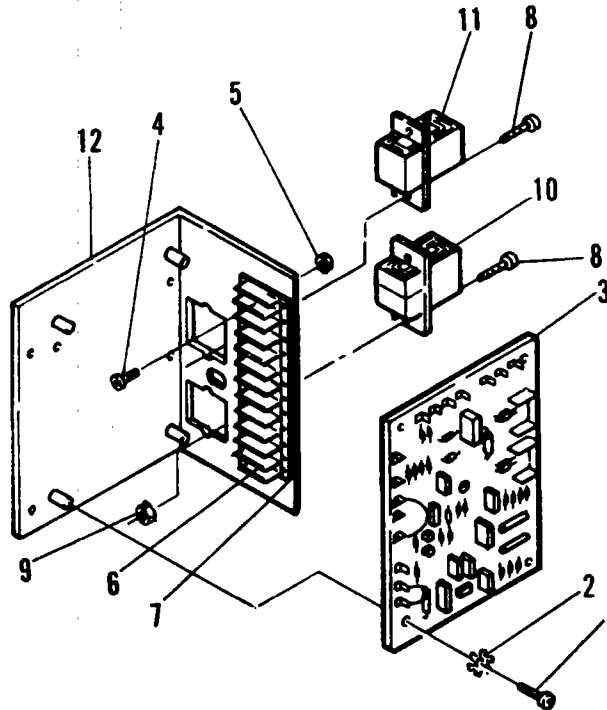
* – Parts Included in Engine Monitor
– Parts Included in Ground Terminal
@ – Parts Included in AC Control Wiring Harness

Voltage Regulator Assembly – Standard (Spec A)



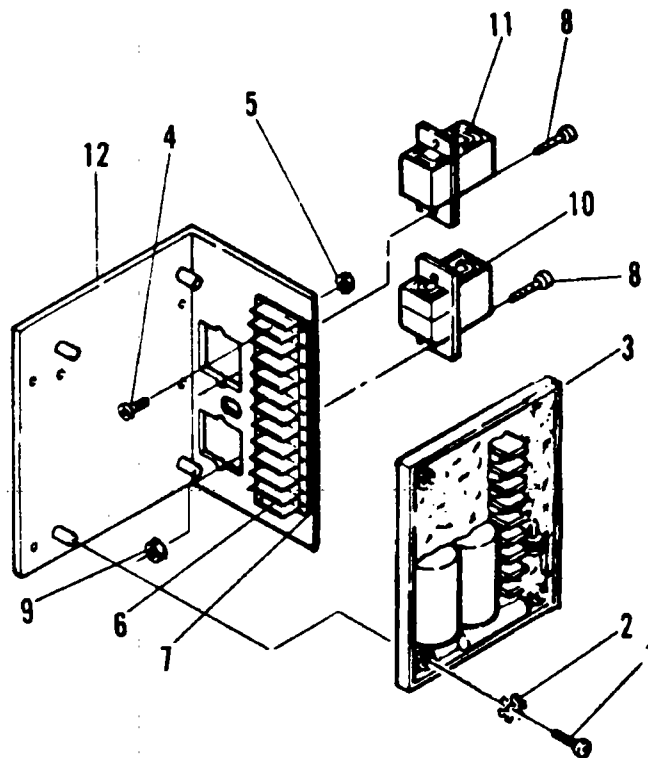
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2)	7	812-0070	4	Screw, Machine – Round Head (#6-32 x 1-1/4)
2	853-0003	4	Washer, Lock – ET (#6)	8	870-0183	4	Nut, Self-Locking – Hex W/ET (#6-32)
3	300-1540	1	Regulator, Voltage (VR21)	9	315-0386	1	Transformer (T21)
4	812-0063	2	Screw, Machine – Round Head (#6-32 x 1/2)	10	315-0391	1	Reactor (L21)
5	870-0183	2	Nut, Self-Locking – Hex W/ET (#6-32)	11	301-3719	1	Panel, Mounting – Voltage Regulator
6	332-1655	1	Block, Terminal (TB21)				

Voltage Regulator Assembly – Standard (Begin Spec B)



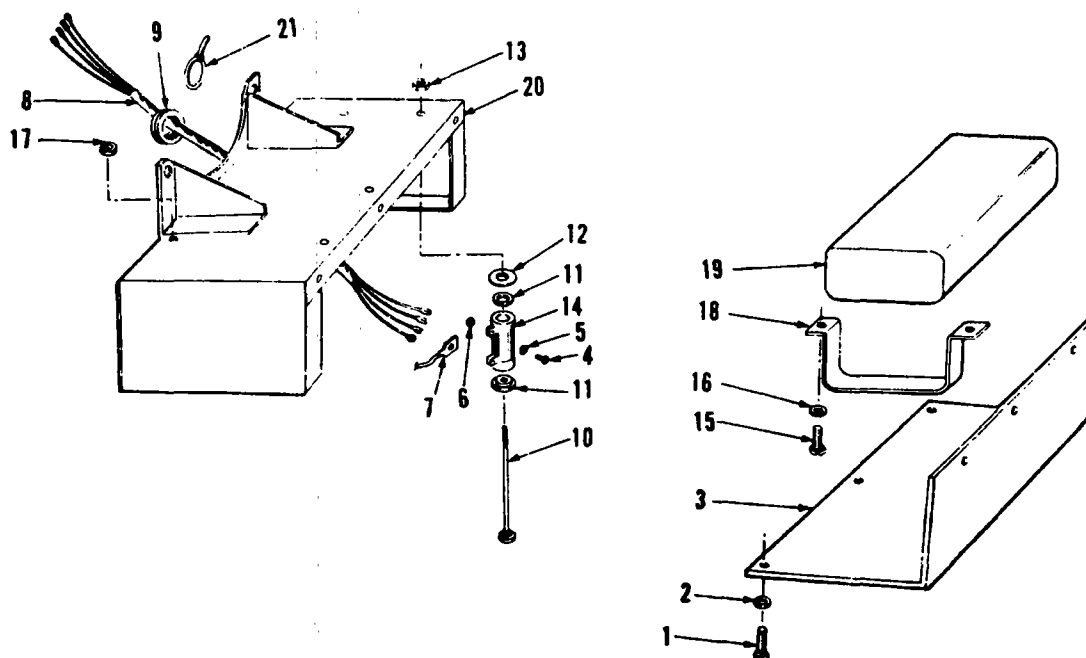
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2)	8	812-0070	4	Screw, Machine – Round Head (#6-32 x 1-1/4)
2	853-0003	4	Washer, Lock – ET (#6)	9	870-0183	4	Nut, Self-Locking – Hex W/ET (#6-32)
3	300-1654	1	Regulator, Voltage (VR21)	10	315-0386	1	Transformer (T21)
4	812-0063	2	Screw, Machine – Round Head (#6-32 x 1/2)	11	315-0391	1	Reactor (L21)
5	870-0183	2	Nut, Self-Locking – Hex W/ET (#6-32)	12	301-8106	1	Panel, Mounting – Voltage Regulator
6	332-0751	1	Block, Terminal (TB21)				
7	332-2651	1	Strip, Marker				

Voltage Regulator Assembly Switching



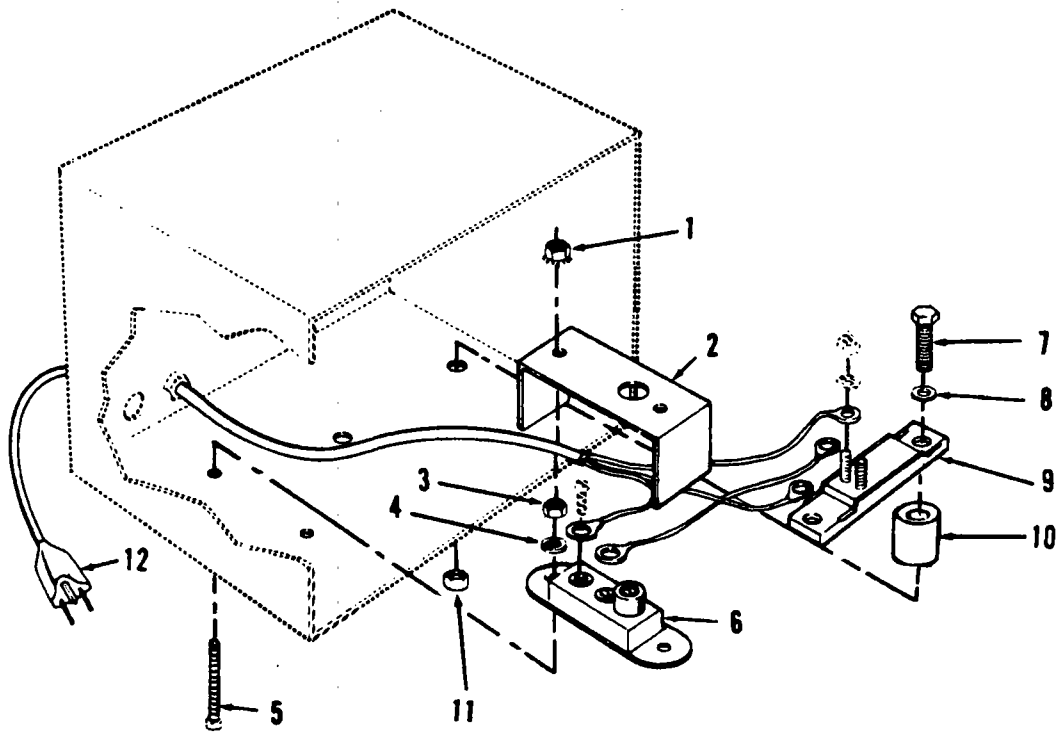
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2)	7	332-2651	1	Strip, Marker
2	853-0003	4	Washer, Lock – ET (#6)	8	812-0070	4	Screw, Machine – Round Head (#6-32 x 1-1/4)
3	305-0688	1	Regulator, Voltage (VR21)	9	870-0183	4	Nut, Self-Locking – Hex W/ET (#6-32)
4	812-0063	2	Screw, Machine – Round Head (#6-32 x 1/2)	10	315-0386	1	Transformer (T21)
5	870-0183	2	Nut, Self-Locking – Hex W/ET (#6-32)	11	315-0391	1	Reactor (L21)
6			Block, Terminal (TB21)	12	301-8106	1	Panel, Mounting – Voltage Regulator
	332-1655	1	Spec A				
	332-0751	1	Begin Spec B				

Voltage Regulator Filter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0098	1	Screw, Machine – Round Head (#10-32 x 3/8)	11	304-0015	4	Washer, Centering
2	850-0030	6	Washer, Lock – Spring (#10)	12	304-0292	2	Insulator – Resistor
3	232-2463	1	Cover	13	870-0053	2	Nut, Hex (#10-32)
4	815-0001	4	Screw, Machine – Binding Head (#6-32 x 1/4)	14	304-0120	2	Resistor, Fixed (2 Ohm, 25 Watt)
5	853-0003	4	Washer, Lock – ET (#6)	15	812-0079	4	Screw, Machine – Round Head (#8-32 x 1/2)
6	860-0006	4	Nut, Hex (#6-32)	16	850-0025	4	Washer, Lock – Spring (#8)
7	332-1279	4	Terminal, Lug	17	860-0008	4	Nut, Hex (#8-32)
8	338-1165	1	Harness, Wiring	18	312-0198	2	Bracket, Mounting – Capacito
9	508-0071	1	Grommet	19	312-0197	1	Capacitor
10	813-0112	2	Screw, Machine – Round Head (#10-32 x 2-1/2)	20	232-2462	1	Box, Mounting – Filter
				21	332-0942	2	Tie, Cable

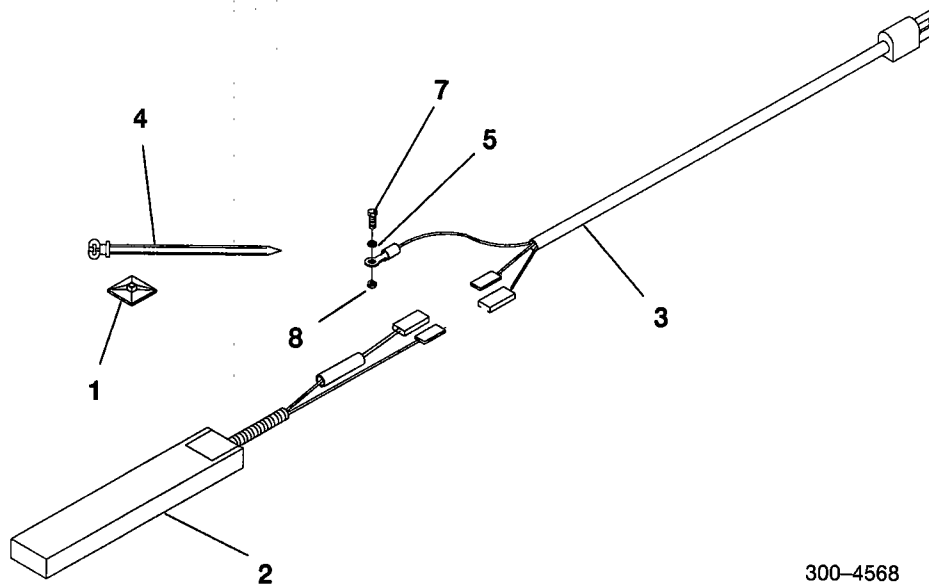
Control Heater (Spec A-F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-Locking – Hex W/ET (#6-32)
2	301-1886	1	Cover, Thermostat
3	860-0006	2	Nut, Hex (#6-32)
4	854-0006	2	Washer, Lock – IT (#6)
5	812-0070	2	Screw, Machine – Round Head (#6-32 x 1-1/4)
6	309-0128	1	Thermostat, Adjustable
7	800-0034	2	Screw, Cap – Hex Head (5/16-18 x 2-1/4)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	526-0113	2	Washer, Flat (5/16)
9	333-0151	1	Heater, Electrical – 75 Watt, 120 VAC: 300 Watt, 240 VAC
10	130-1107	2	Spacer, Sleeve
11	870-0257	2	Nut, Self-Locking – Hex Washer Head (5/16-18)
12	335-0161	1	Cable, Electrical

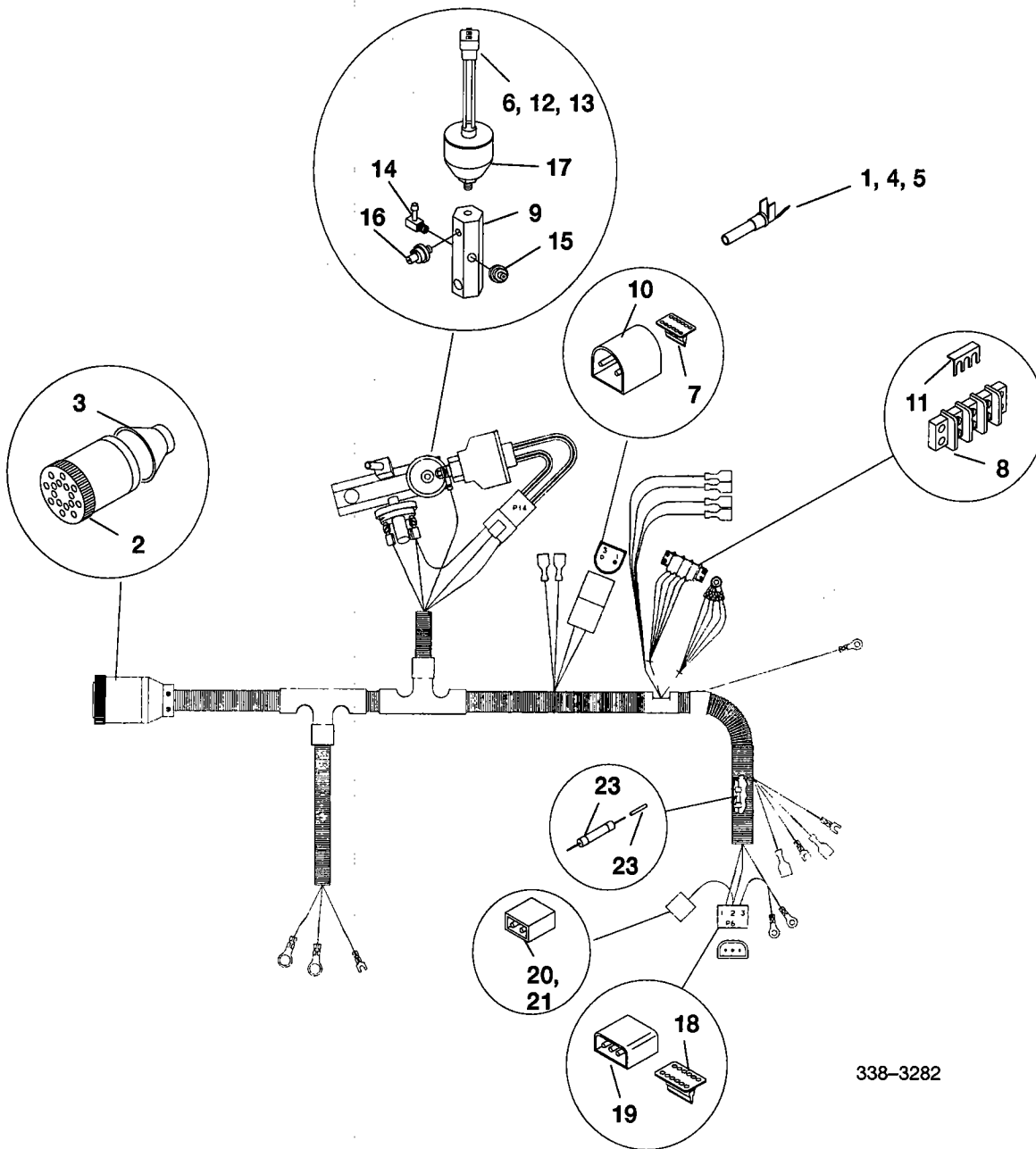
Control Heater (Spec G)



300-4568

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3338	1	Mount, Tie - Cable	5	856-0008	2	Washer, EIT (5/16)
2			Heater	6	098-6195	1	Label, Caution
	300-4515-01	1	120 Volt	7	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 3/4)
	300-4515-02	1	240 Volt	8	870-0257	1	Nut, Self-Locking (5/16-18)
3	335-0173	1	Cable, Heater - Control				
4	332-0942	AR	Tie, Cable				

Engine Harness (Spec G)



Engine Harness (Spec G)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-3282	1	Harness, Wiring – Engine (Includes parts marked *)
1	323-1492	15	* Socket, Terminal
2	323-1134	1	* Plug, Circular (16 Pin)
3	332-2304	1	* Clamp, Cable
4	323-1195	A/R	* Socket, Female (14 – 18 AWG)
5	323-1192	A/R	* Socket, Female (12 – 14 AWG)
6	323-1591	1	* Plug, Connector
7	166-0849	1	* Wedge, Connector (P8)
8	332-0611	1	* Block, Terminal
9	120-1312-02	1	* Manifold, Oil Pressure
10	166-0848	1	* Connector (P8)
11	332-1043	2	* Jumper, Terminal Block
12	323-1548	1	* Wedge, Plug (4 Pin)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	323-1546	1	* Plug (4 Pin)
14	502-0053	1	Elbow, Street – Pipe
15	309-0641-03	1	* Switch, Pressure – Low Oil Pressure
16	309-0641-07	1	* Switch, Pressure – Pre Low Oil Pressure
17	193-0448	1	* Sender, Oil Pressure
18	191-2179	1	* Wedge, Connector (P6)
19	191-2179	1	* Connector (P6)
20	191-2177	1	* Terminal, Receptacle (P7)
21	191-2176	1	* Connector (P7)
22	332-3058	2	* Splice
23	350-0980	1	* Resistor (510n, 2W, 5%)

* – Parts Included In 338-3282 Engine Wiring Harness

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